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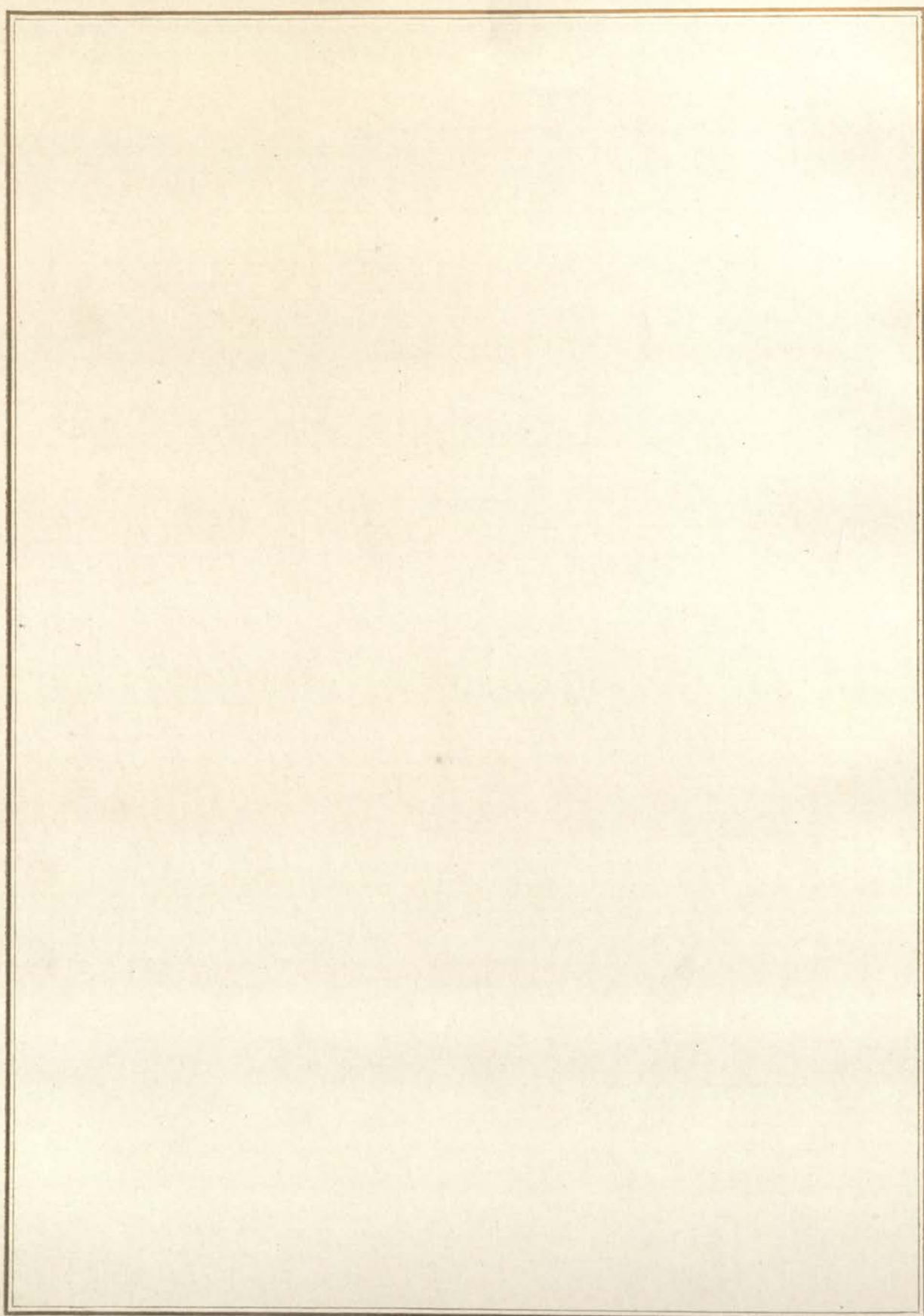


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1917





# The ROLLAMO

VOLUME 11

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PUBLISHED ANNUALLY  
BY THE STUDENTS OF THE  
Missouri School of Mines and Metallurgy  
ROLLA, MISSOURI

## Foreword

**B**EFORE the rock-bound wealth of Nature becomes of value to man it must be wrenched from the hidden depths, crushed in the maw of the mill, and purged in the smelter's glare. But there can be no more gold in the finished bullion than Nature placed in the ore.

Your acts and endeavors at M. S. M. have been the ore. We have mined them and concentrated them. Much has been lost in the processes, but at last as the crucible of 1917 slowly pours out its gleaming contents into the mold, we see the bar of metal with Rollamo '17 eternally stamped into the cast.

If your yearbook is not truly valuable, then the samples were careless and the ore low grade. If, on the other hand, you really prize the book, we are sincerely happy in the knowledge that the ore was "pay dirt" and that our humble efforts have not been in vain.





To  
**Carroll Ralph Forbes**  
**This 1917 Rollamo is Respectfully Dedicated**

Professor Forbes was born at Beatrice, Nebraska, but later moved to Topeka, Kansas. In 1902 he graduated from the Michigan College of Mines and received his E.M. degree the year following. From that time until 1908 he followed the practical side of copper mining in Michigan and Nevada and then returned for post-graduate work to the Missouri School of Mines, where he became Assistant Professor of Mining in 1909 and head of the Mining Department in 1912.

Professor Forbes has deserved the esteem of the student body of M. S. M., for although he is a stern advocate of the midnight oil, his courses in mining are thorough and practical and consequently "worth while." Above all, he is a loyal supporter of school activities and whenever anyone needs advice or assistance, Professor Forbes' office door is always open and a fellow student rather than a professor is inside ready and eager to do what he can.



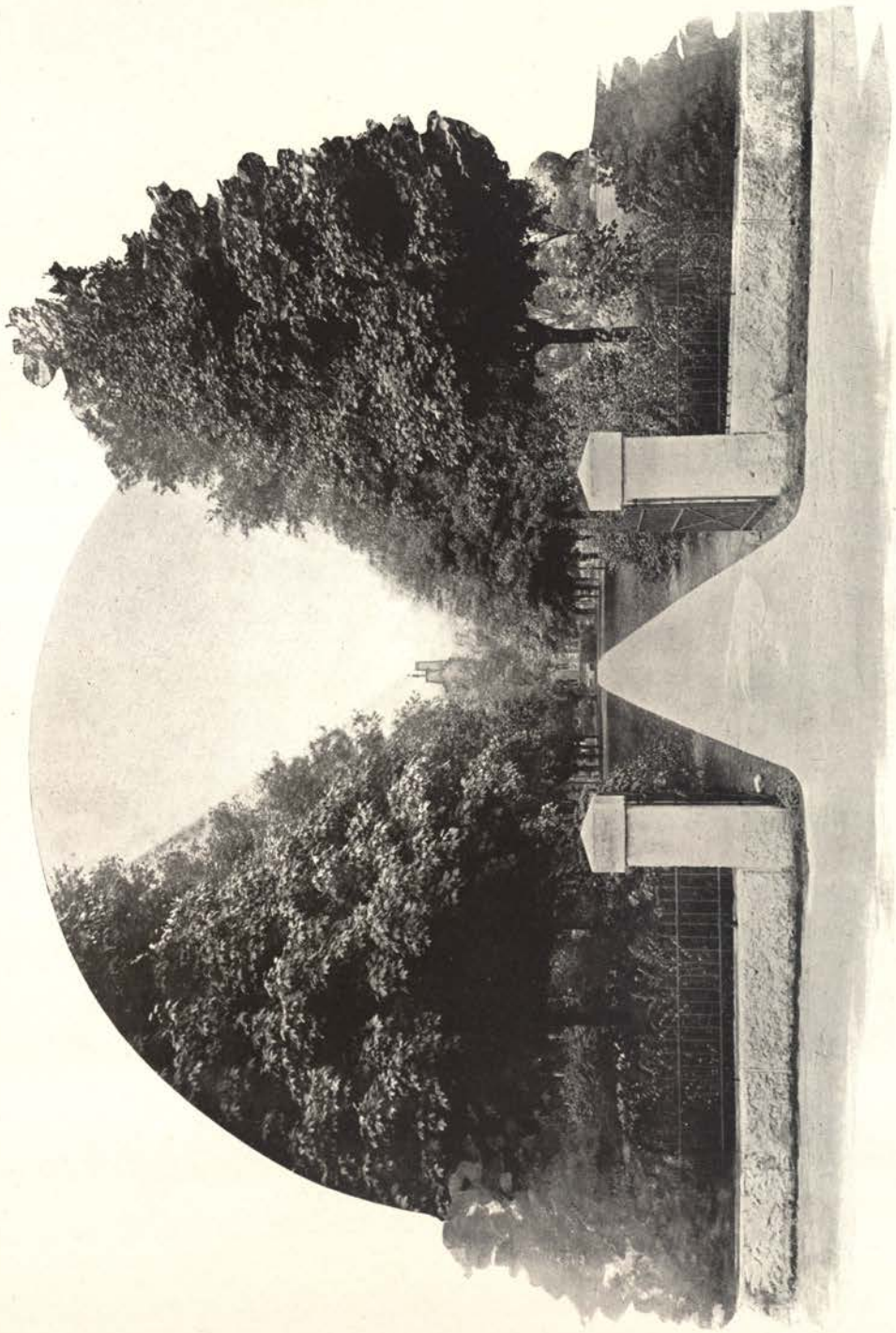


C. R. Forbes



NORWOOD HALL



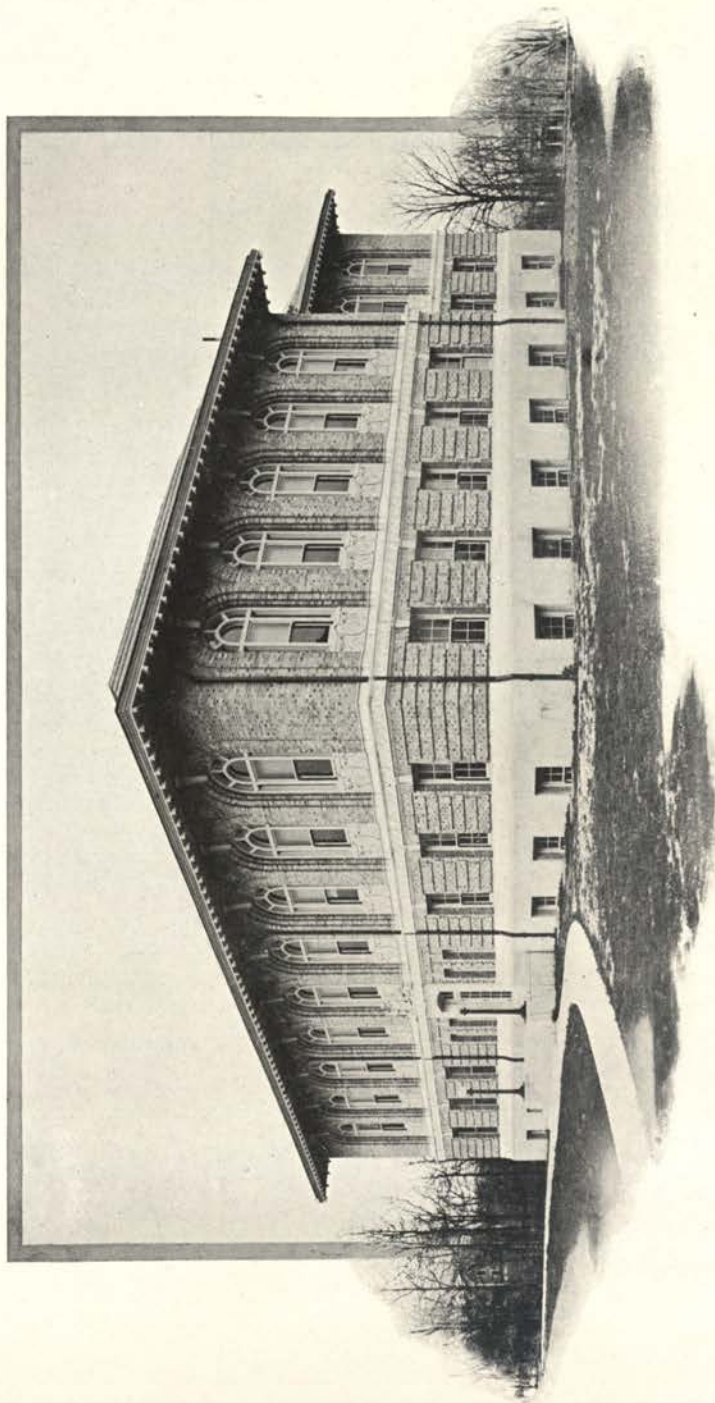


SOUTH GATES

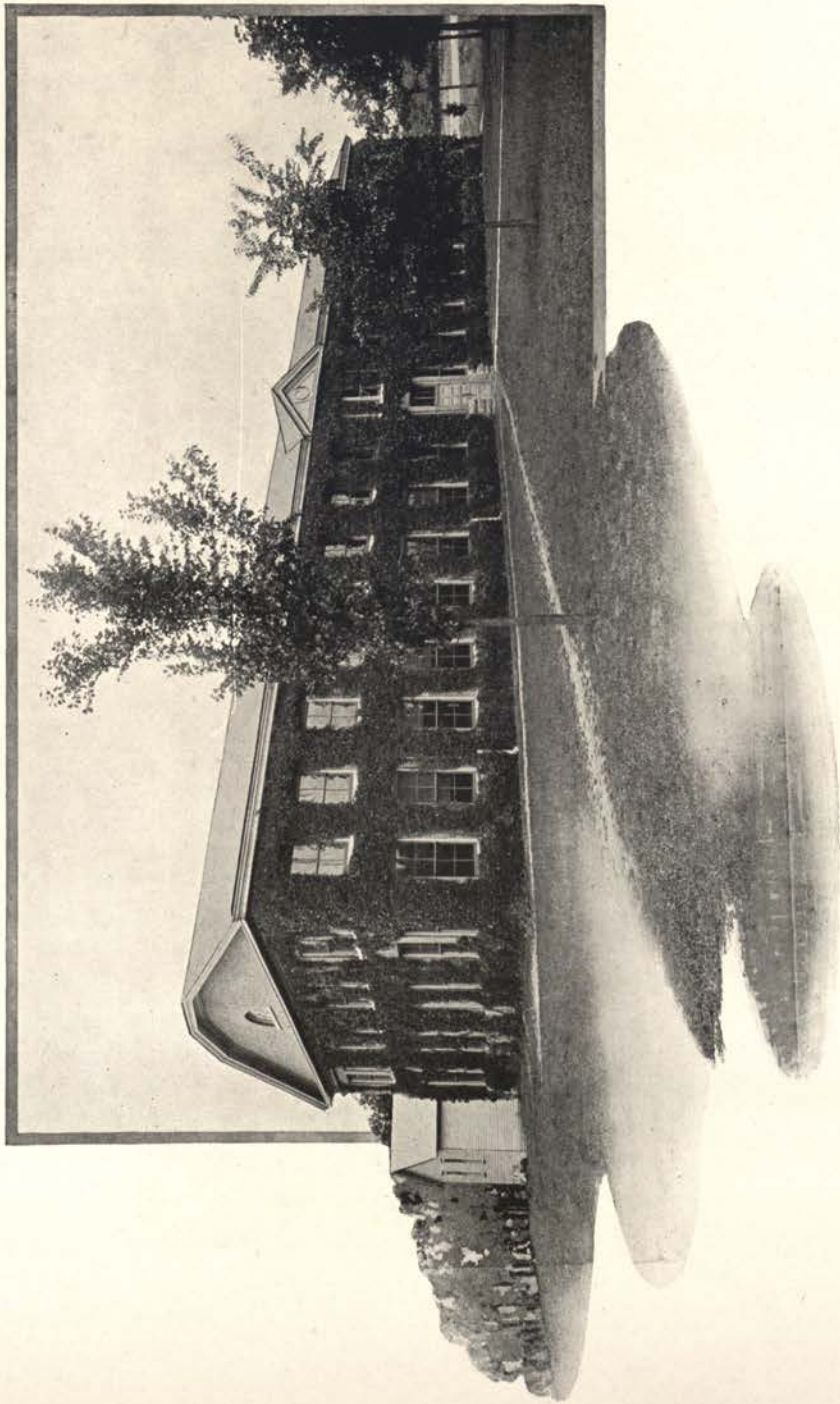


ROLLA BUILDING



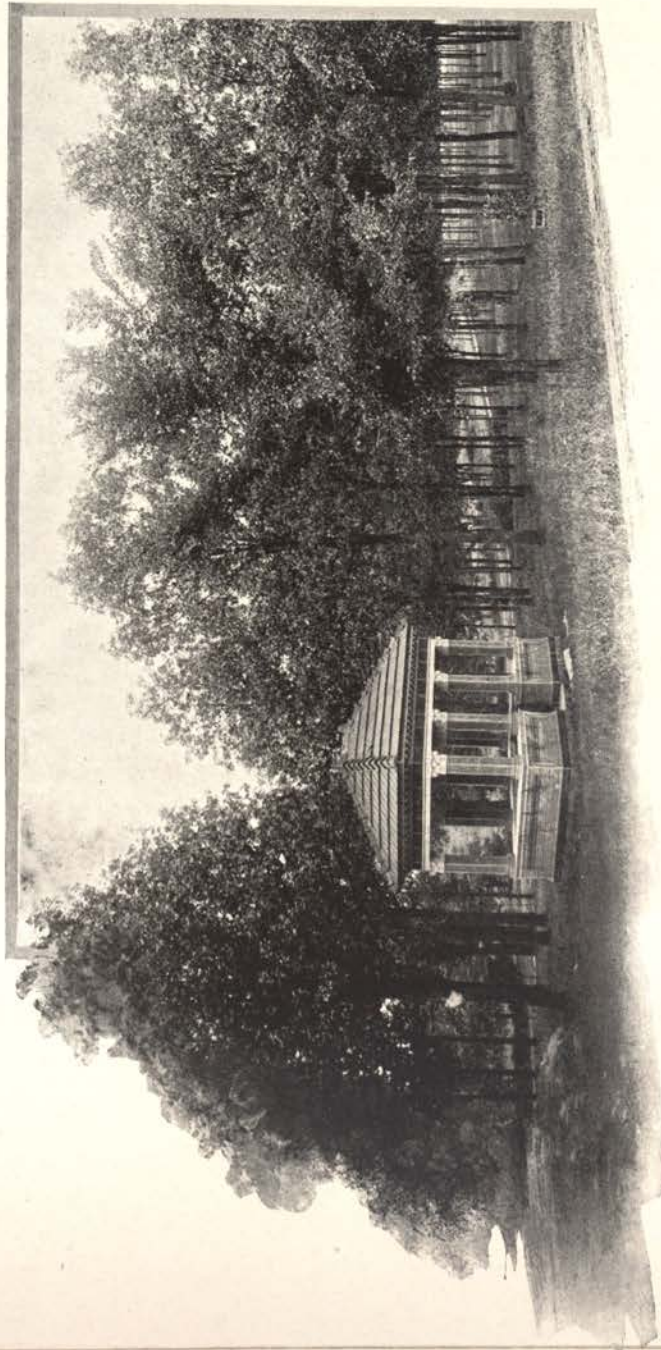


PARKER HALL



MECHANICAL HALL



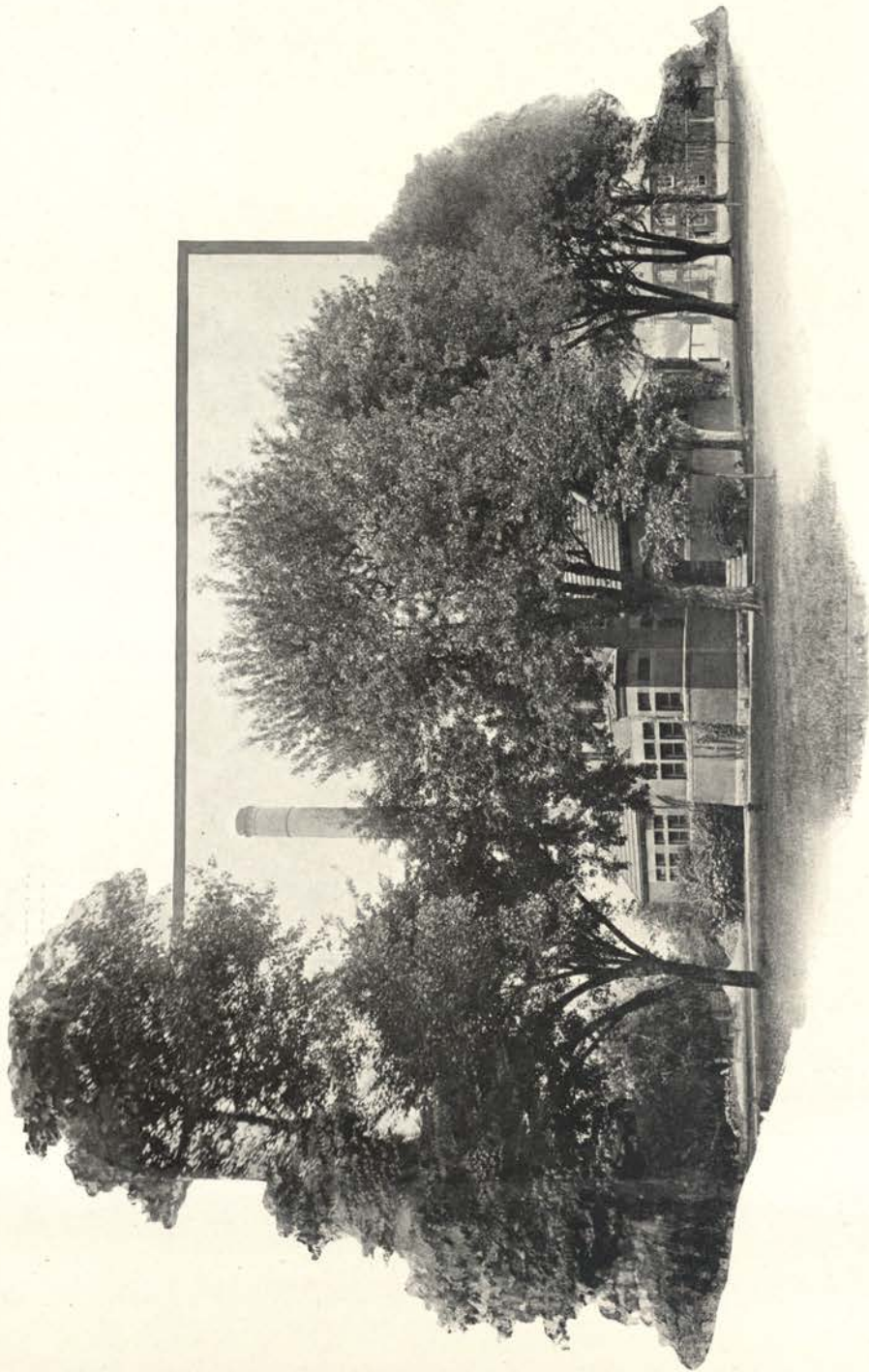


PAVILLION AND GROVE

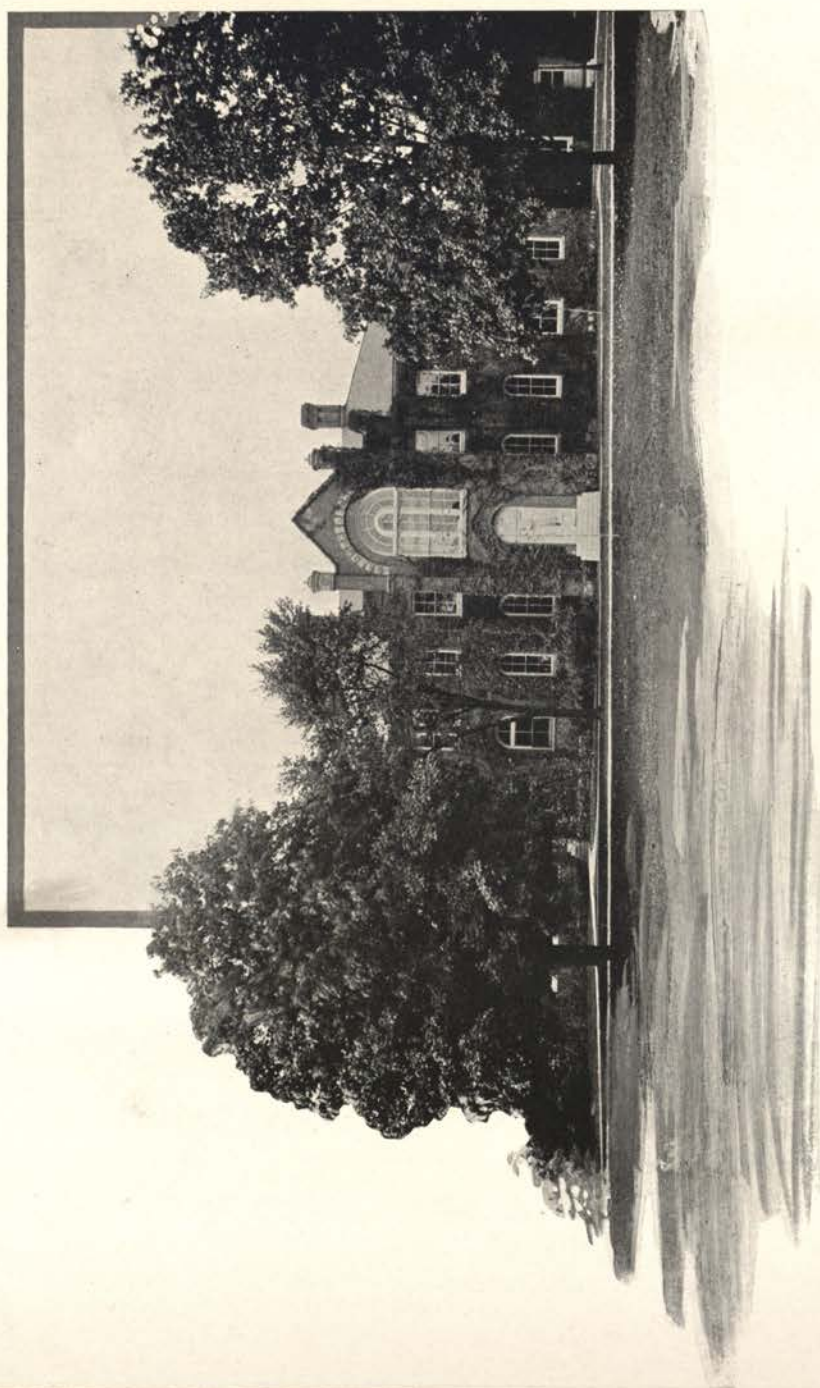


DIRECTOR'S RESIDENCE



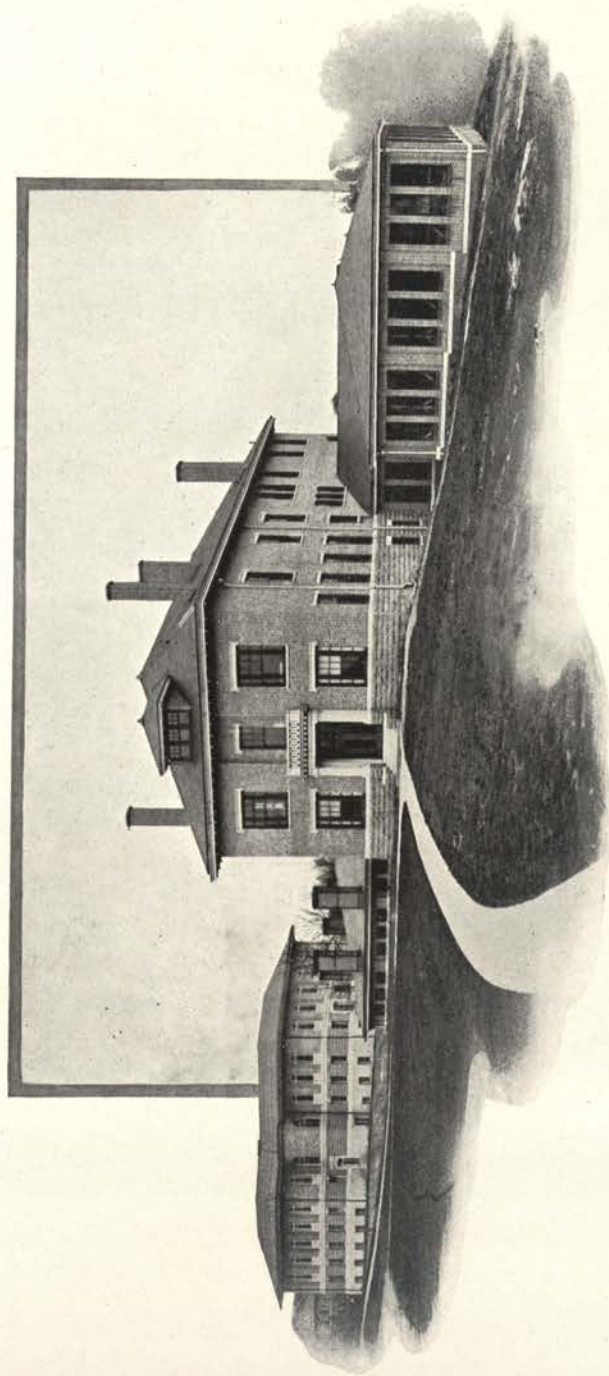


MINING BUILDING

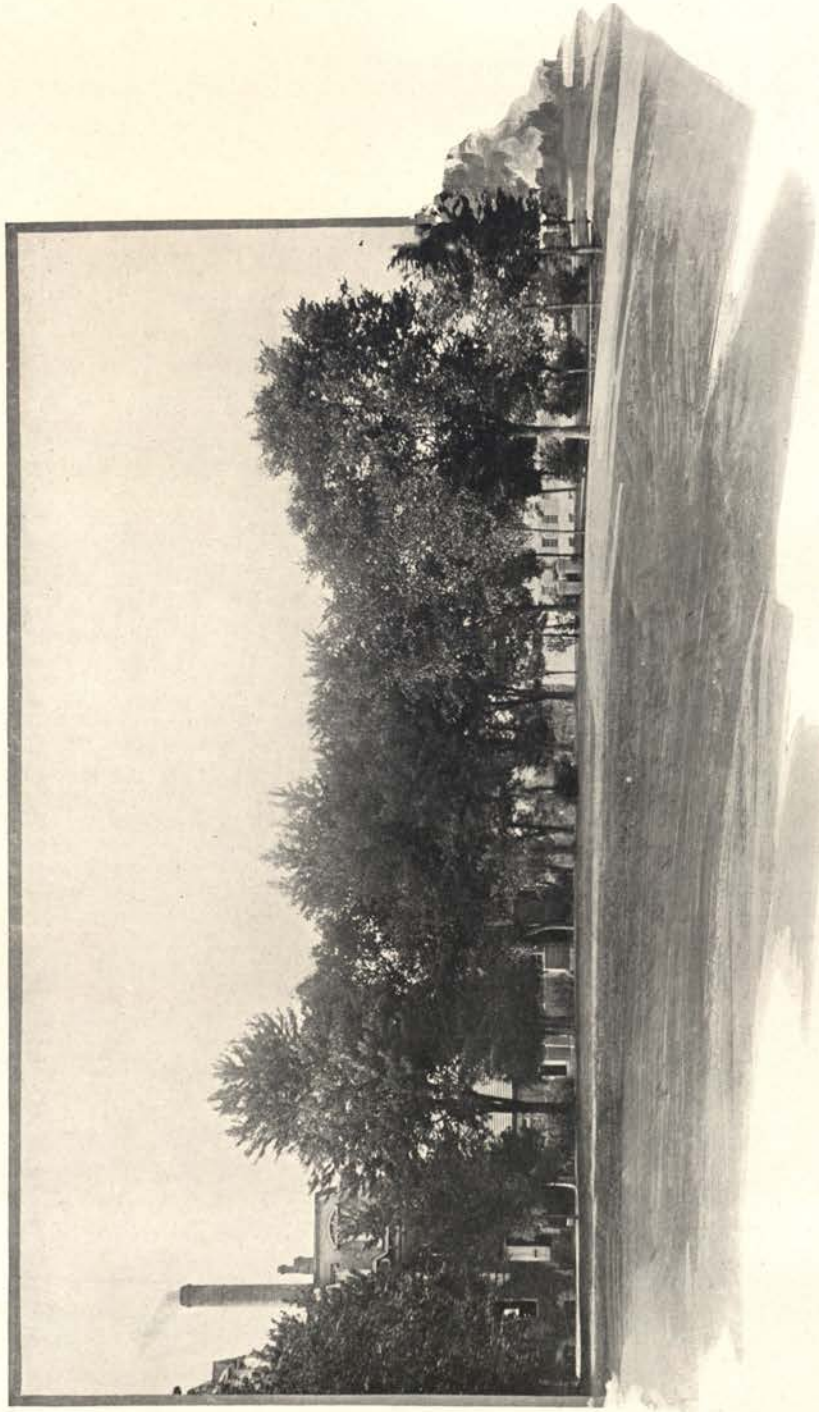


CHEMISTRY BUILDING



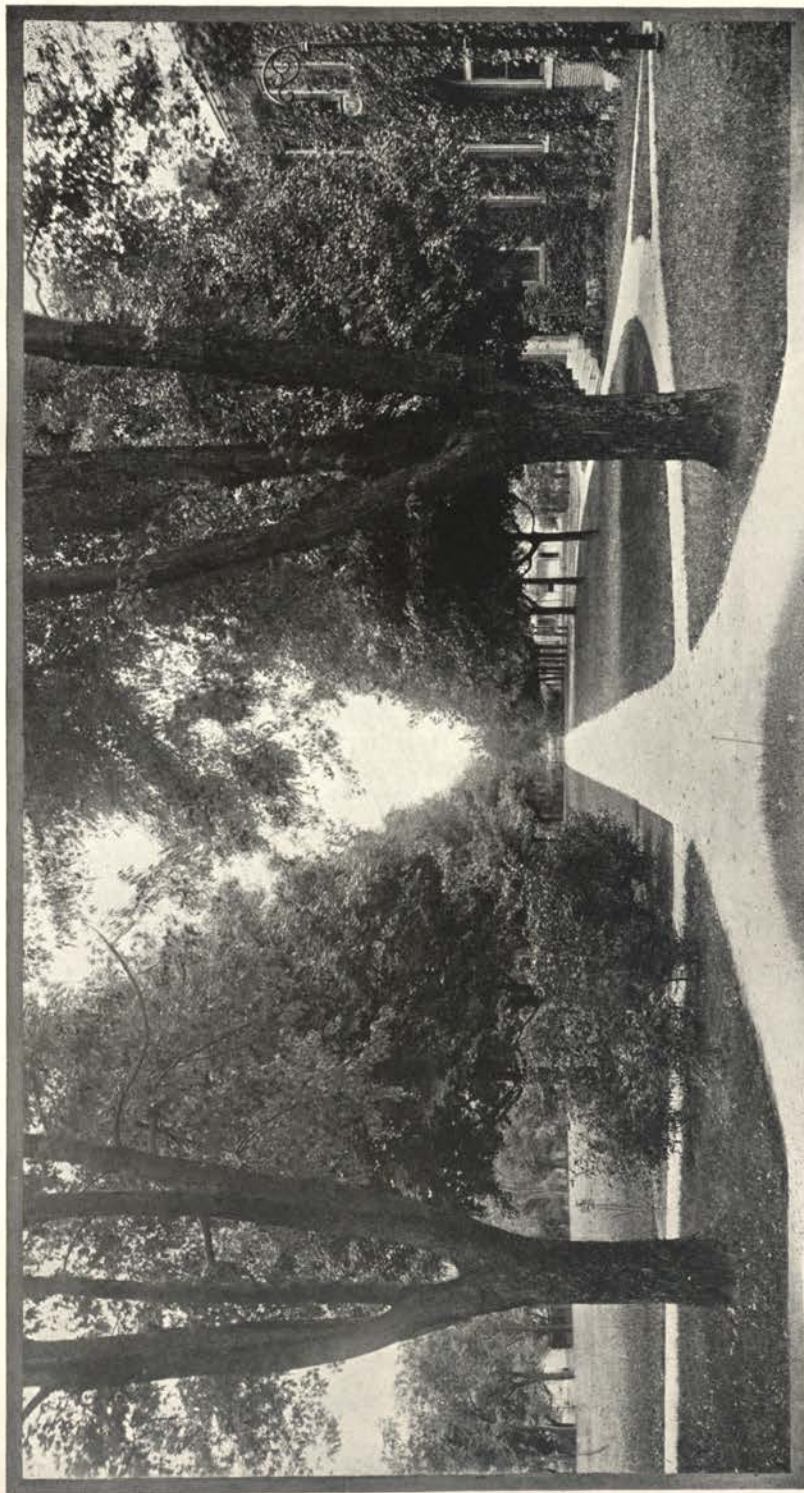


METALLURGY BUILDING

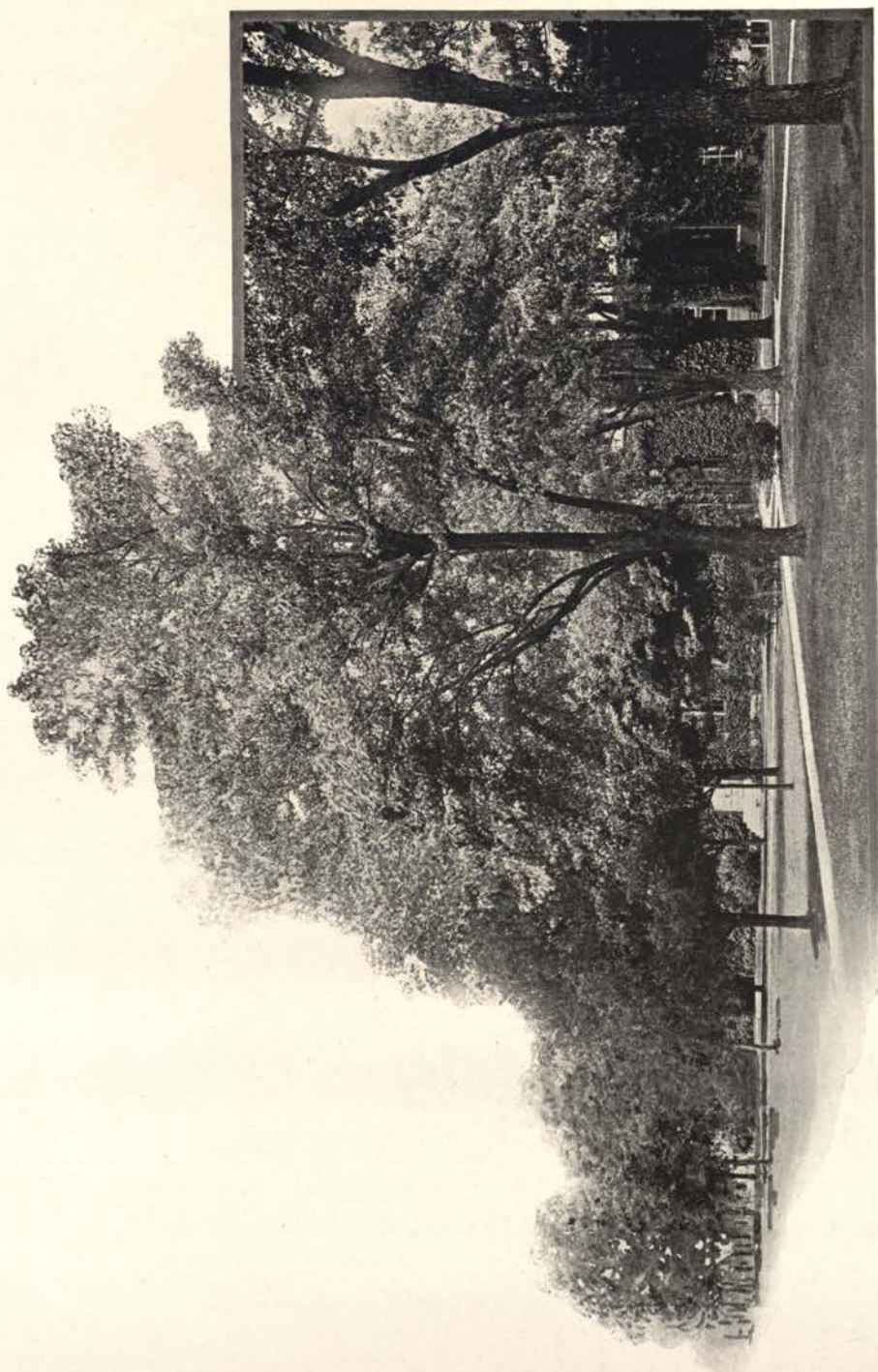


CAMPUS VIEW



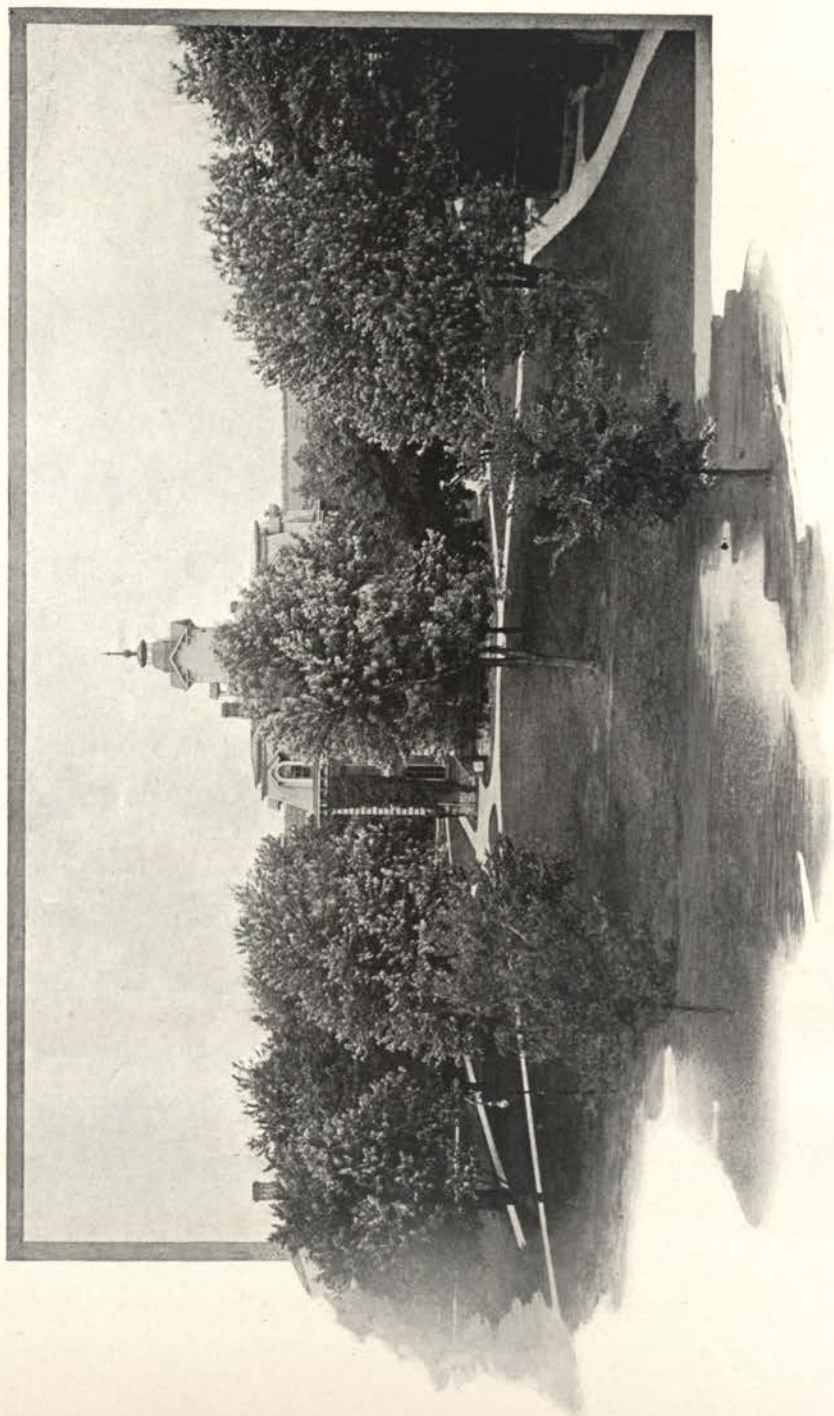


CAMPUS VIEW

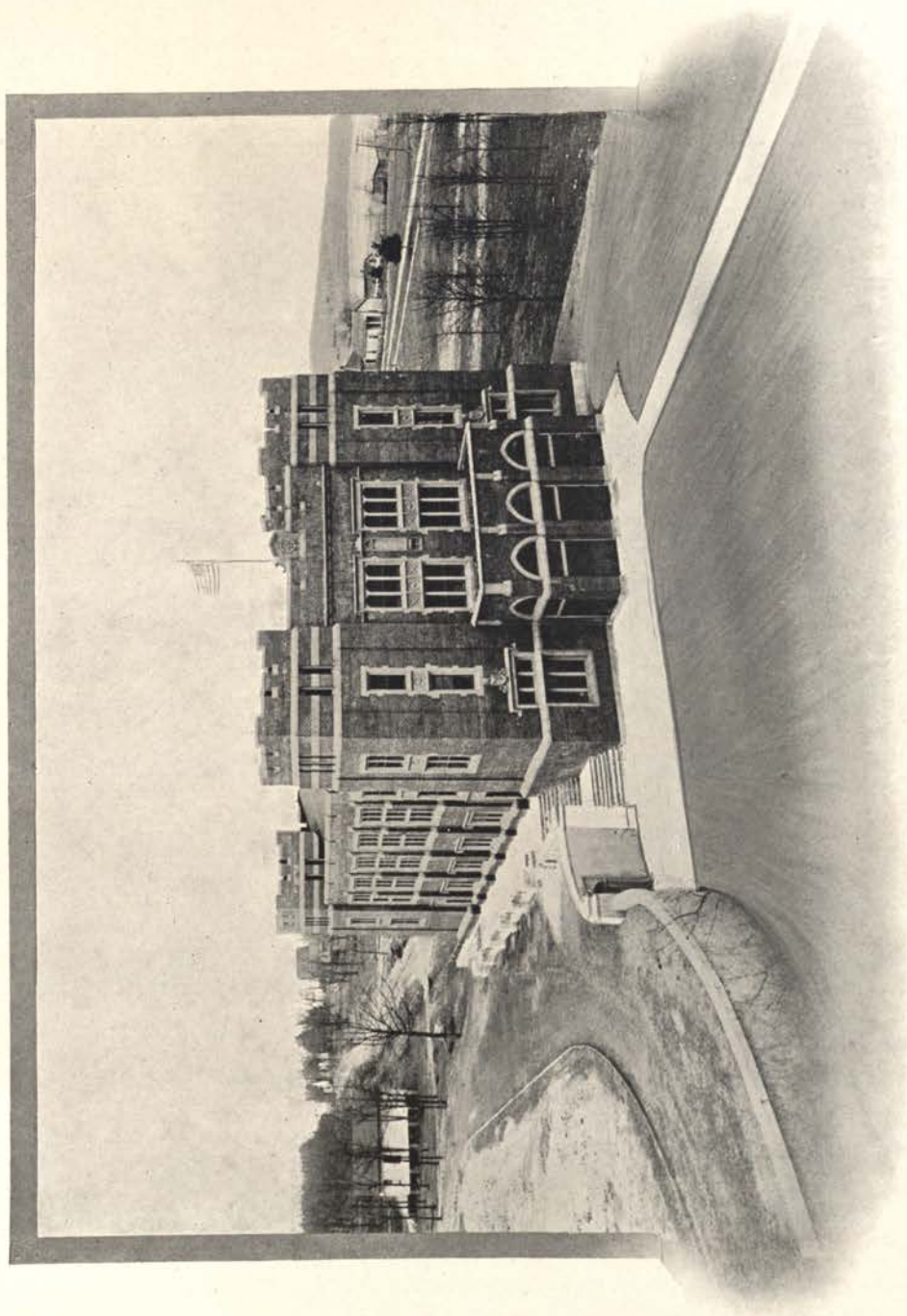


CAMPUS VIEW



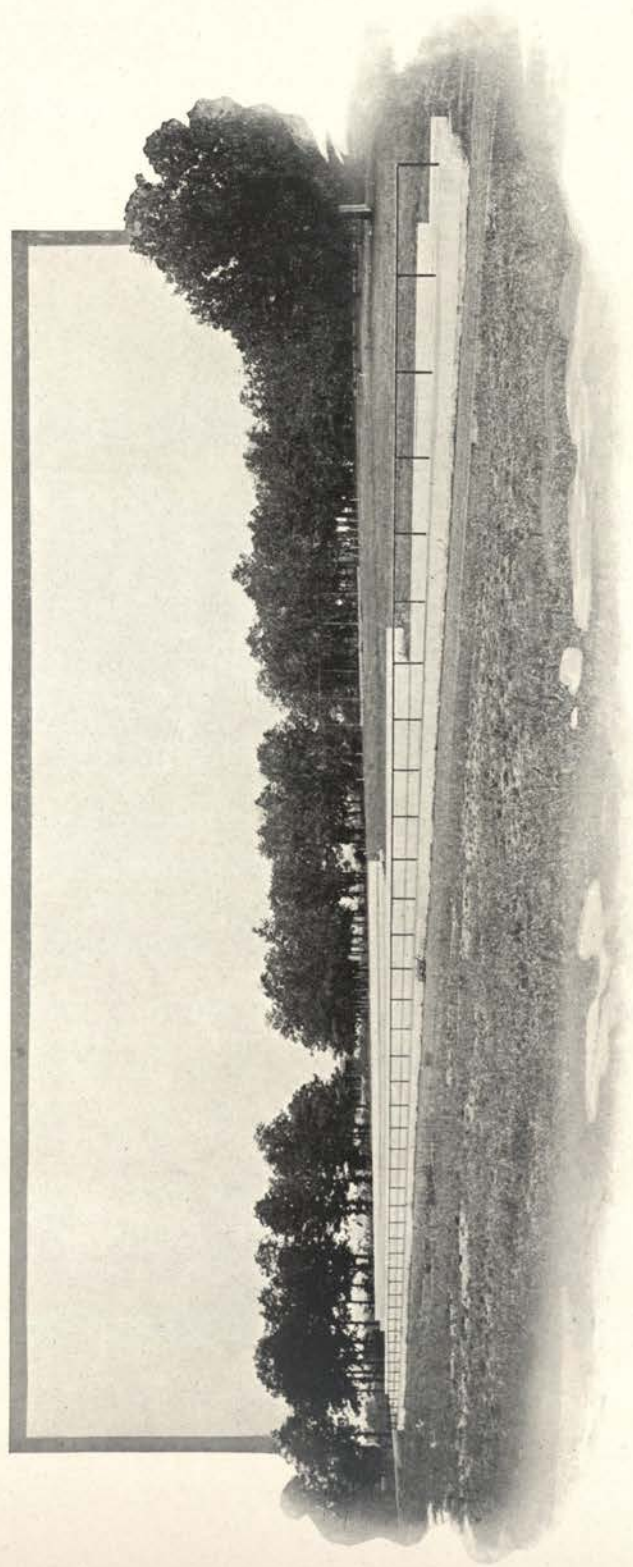


CAMPUS VIEW



GYMNASIUM



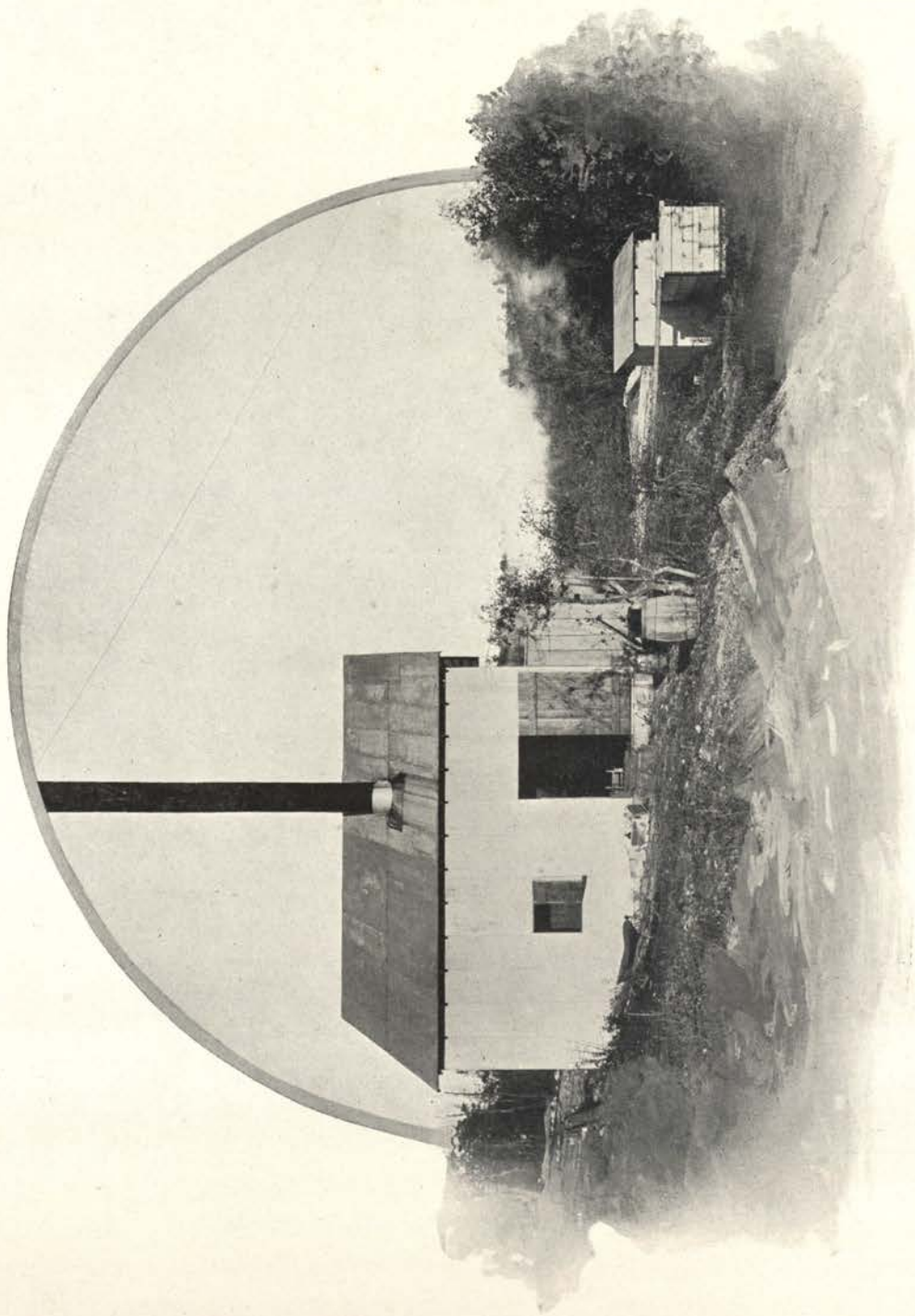


BLEACHERS

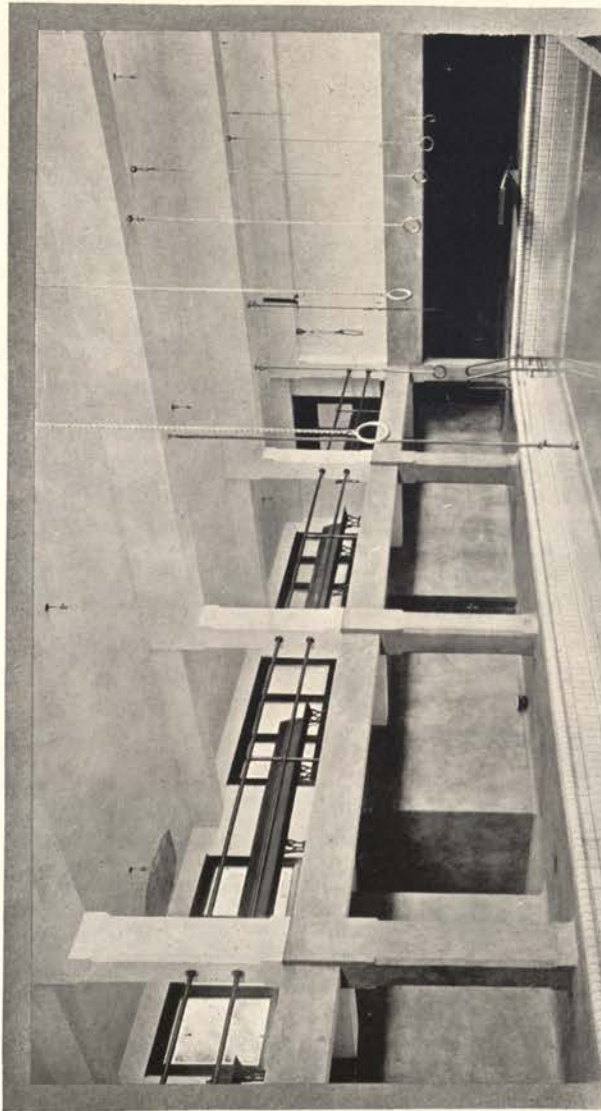


TUNNEL AT SCHOOL MINE



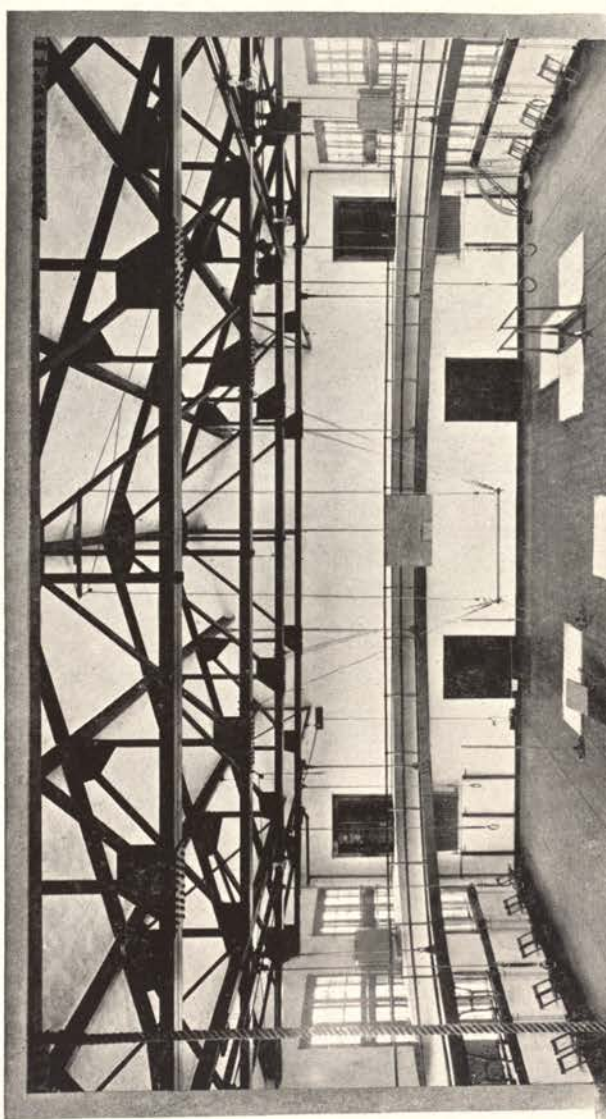


POWER PLANT AT MINE



SWIMMING POOL





GYMNASIUM FLOOR







## Board of Curators

|                       |                      |
|-----------------------|----------------------|
| S. L. BAYSINGER.....  | Rolla, Mo.           |
| JOHN H. BRADLEY.....  | Kennett, Mo.         |
| D. R. FRANCIS.....    | St. Louis, Mo.       |
| H. B. McDANIEL.....   | Springfield, Mo.     |
| ALBERT D. NORTON..... | St. Louis, Mo.       |
| G. E. MUNS.....       | Montgomery City, Mo. |
| C. B. ROLLINS.....    | Columbia, Mo.        |
| SAM SPARROW.....      | Kansas City, Mo.     |
| MILTON TOOTLE.....    | St. Joseph, Mo.      |

## Executive Committee of the Missouri School of Mines and Metallurgy

|                       |                           |
|-----------------------|---------------------------|
| S. L. BAYSINGER.....  | Chairman                  |
| ALBERT D. NORTON..... | Vice-Chairman             |
| H. B. McDANIEL.....   | Vice-Chairman             |
| EDWIN KAHLBAUM.....   | Secretary                 |
| C. M. KNAPP.....      | Treasurer                 |
| A. L. McRAE.....      | Director, School of Mines |





AUSTIN LEE McRAE, B.S., S.D.

*Tau Beta Pi, Chi Phi, Phi Beta Kappa*

DIRECTOR OF MISSOURI SCHOOL OF MINES AND METALLURGY

Fellow, American Association for the Advancement of Science; Member, Society for the Promotion of Engineering Education; Member, Executive Council for Missouri of the National Economic League.

B.S., University of Georgia, 1881; S.D., Harvard University, 1886; U. S. Signal Service, 1882-89; Assistant Professor of Physics, University of Missouri, 1889-91; Professor of Physics, Missouri School of Mines, 1891-94; Professor of Physics, University of Texas, 1894-96; Professor of Physics, Missouri School of Mines, 1899-1915; Director, Missouri School of Mines, 1915.

Doctor McRae has proven himself to be the students' friend. His office is always open, and he is ever willing to suggest and help, no matter what the case. He is always present at any mass meeting, and ardently supports all school enterprises.



JOSEPH WAYNE BARLEY

A.B., A.M., Ph.D.

*Sigma Nu*

PROFESSOR OF ENGLISH

Doctor Barley is one of the Faculty members who never forgets that once upon a time he, too, was a student. His courses are popular with all because they are not only instructive but interesting, and whenever it is known that "Doc" Barley will read from Service or Kipling or give a talk, a big mass meeting inevitably results.

DURAND COPELAND, S.B., MET. E.

*Tau Beta Pi, Sigma Rho*

PROFESSOR OF METALLURGY AND ORE DRESSING

Professor Copeland is still in absentia following his profession of Metallurgical Engineering. The old men are still wishing for his return to M. S. M., while the new men are wishing for a chance to know him. "Cope" is a world recognized expert on all tin propositions, and at present is to be found at Potosi, Bolivia.

GUY HENRY COX

B.S., M.A., E.M., Ph.D.

*Tau Beta Pi, Alpha Chi Sigma*

PROFESSOR OF GEOLOGY

The call of the field was too strong for Professor Cox to resist, so he is spending this year in geological work in Oklahoma. A great decrease in the department's red ink bill has been noted. Doctor Cox frequently returns to Rolla and always gives an instructive talk on oil or gas.



GEORGE REGINALD DEAN, C.E., B.S.

*Tau Beta Pi*

PROFESSOR OF MATHEMATICS

Prof. Dean, the Wizard of Integrals, Unknowns, and Calculus, daily toils with the S. F.'s (spoon fed) and the S. I.'s (solid ivory). It is difficult to say whether Prof. would rather tell old stories or wade Piney for bass. He is noted for his illustrated lecture in mass meeting on angling. He is not strong for a co-educational institution.

HAROLD SHIELDS DICKERSON

M.E., E.E.

PROFESSOR OF MECHANICAL ENGINEERING

Prof. Dickerson came to M. S. M. this year from Purdue U., and since his arrival the new department of Mechanical Engineering has received quite a push. He is noted for his unique ideas on schedules at the school and also for his ability to pound Thermo and Power Plant into Senior heads. His chief pastime seems to be coaxing his flivver to accommodate its action to a theoretical indicator card.

CARROLL RALPH FORBES, B.S., E.M.

*Tau Beta Pi, Sigma Rho*

PROFESSOR OF MINING ENGINEERING

Professor Forbes is one of the men in the Good Fellow class. All his students and all who know him find in him a friend. His hobbies seem to be mining, Fords, and inventing sudden and soul thrilling quizzes.







VICTOR HUGO GOTTSCHALK  
B.S., M.S.

*Tau Beta Pi, Sigma Xi*

PROFESSOR OF CHEMISTRY

Professor Gottschalk is spending this year in post-graduate work at the University of Chicago. His snappy step and rapid-fire lecture are missed by all who knew him. M. S. M. will be glad to see his genial smile once more, as he had a habit of apologizing to the class whenever the grades were low.

ELMO GOLIGHTLY HARRIS, C.E.

PROFESSOR OF CIVIL ENGINEERING

Between the Professor's Hydraulics and Compressed Air, many a brave Senior and Junior ponder why they ever took up engineering in the first place. Loves to damn things, especially the Gasconade, and to hunt turkey.

CHARLES LAURENCE DAKE  
B.A., M.A.

*Accacia, Gamma Alpha, Sigma Xi*

ASSOCIATE PROFESSOR OF GEOLOGY AND  
MINERALOGY

Prof. Dake certainly believes in odd quizzes and bewildering questions, but somehow even the "boneheads" manage to get a "geological turn of mind." Prof's main fault is his extravagant use of red ink and his belief in predestination as far as grades go. When it comes to "geologizing" he will outwalk anything in the Ozarks, and woe betide the unfortunate "gastropod" or "coelenterate" which he may come across.



FRANK EDWARD DENNIE, B.S.

*Theta Delta Chi*

ASSOCIATE PROFESSOR OF PHYSICAL  
TRAINING

"Spike" has finished his fifth year as coach at M. S. M. He has turned out some good teams, and has always been on the job. He was never known to pronounce an "r," but no one holds it against him. "Coach" always has a smile, and will talk at a mass meeting whenever given an opportunity.

LEON ELLIS GARRETT, B.S.

*Tau Beta Pi*

ASSOCIATE PROFESSOR OF MATHEMATICS

Prof. Garrett's headquarters are down in the trenches under Parker Hall, where he and the Juniors bombard Mechanics with fearful accuracy. When it comes to teaching mathematics, Prof. Garrett certainly sees that the student learns the subject and makes it interesting as well. Lost his heart when his flivver broke down.

HORACE THORP MANN

B.S., E.M., M.S.

*Tau Beta Pi, Pi Kappa Alpha*

ASSOCIATE PROFESSOR OF METALLURGY AND  
ORE DRESSING

Prof. Mann usually puts out an interesting as well as an instructive course, and when the semester is over the student somehow or other knows the dope. He is a hearty supporter of the Miner and reads every line, but refuses to obey his conscience and be seen at mass meetings. Has never been known to stand still for over one second. His ever-timely suggestion "let's quit" has made him popular in all his classes.







### JOSEPH HENRY BOWEN

ASSISTANT PROFESSOR OF MECHANICAL  
ENGINEERING

Prof. Bowen will always be famous for his advice, "That's purty good; better make another one," which he gives each year to the Freshmen. He is likewise known as a friend of the student and although he is not like a whirlwind in noise he will always take the student's side. "Prof." is quite a horseman, and his chief delight is to straddle a thoroughbred and pace about Phelps County.

### CHARLES YANCEY CLAYTON

B.S., MET. E.

*Tau Beta Pi, Kappa Alpha*

ASSISTANT PROFESSOR OF METALLURGY AND  
ORE DRESSING

Professor Clayton, regardless of the high cost of paper, daily puts out great quantities of mimeographed notes. Has threatened to print these notes with poisoned ink. Slag problems and metallurgical calculations are his delight, while assaying is a mere pastime. He is always on good speaking terms with all his students, and does not object to a joke in his classroom, or if he did, quite a few students would be absent. "Boots" likes to read the Miner and invariably orders a half dozen extra copies whenever his name is mentioned.

### FRANCIS POTTER DANIELS

A.B., A.M., PH.D.

*Phi Delta Kappa*

ASSISTANT PROFESSOR OF MODERN  
LANGUAGES

Doctor Daniels is with us for the first year. He has quite a reputation as a globe-trotter, and has written a number of books in foreign languages. "Doc" looks like good football material until we hear his gentle voice. For additional information, see "Who's Who in America."



JOHN CHARAVELLE INGRAM, B.S.  
*Tau Beta Pi, Theta Xi*

ASSISTANT PROFESSOR OF CHEMISTRY

In Charge of Department 1916-17

Jack is the man who initiates the Freshmen into the realm of Chemistry. He is noted for his mustache. He is usually to be found at Chemistry Hall deeply engrossed in some experiment. M. S. M. regrets that we see so little of him, for in former years he was always supporting school activities.

EDGAR SCOTT McCANDLISS, B.S.  
*Delta Upsilon*

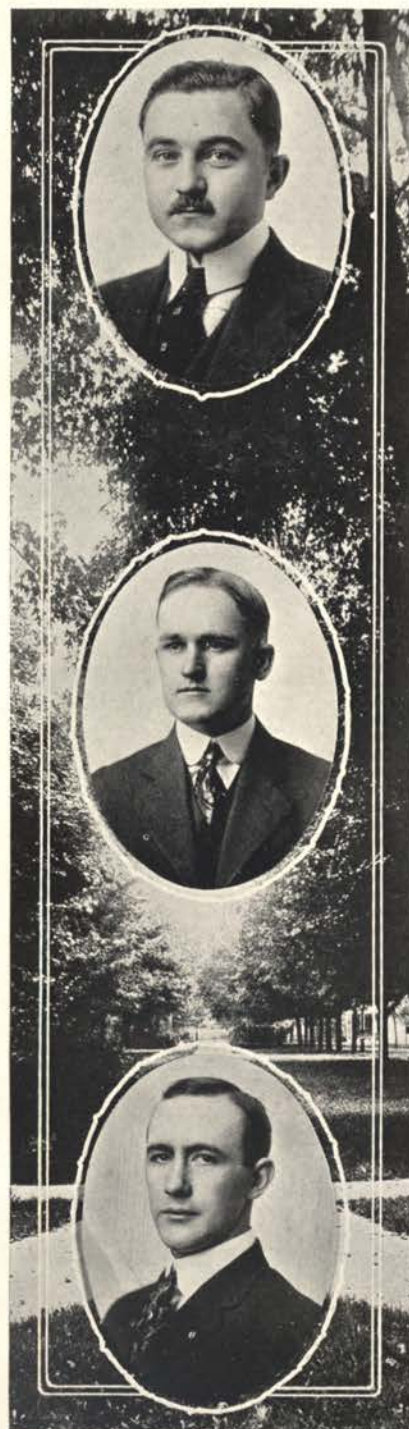
ASSISTANT PROFESSOR IN CIVIL  
ENGINEERING

"Major" received his degree from Purdue University and then came to Rolla to help out Prof. Harris in civil engineering. His chief hobby seems to be joining technical societies. He belongs to the American Society for Testing Materials, Society for Promotion of Engineering Education, A. S. C. E., etc. The fatality rate in Major's quizzes is abnormal and many a Junior has had to work to get through R. R. Surveying. He used to umpire the inter-club and fraternity baseball games but now declares "Yer outa luck."

JOSEPH B. COLE  
*Grubstaker*

INSTRUCTOR IN MECHANICAL ENGINEERING

Familiarly known as "Joe," he is always on hand to help the would-be mechanics and forge men. Has never been known to "crab" about anything, and is liked by all. He became famous on account of his reasons for marrying as disclosed in his talk in mass meeting. A real Miner all the time.







RALPH EARL DUFFY, B.S.

*Tau Beta Pi*

INSTRUCTOR IN DRAWING

Duffy is perhaps one of the quietest men on the Faculty, but that does not mean that he is not interested in M. S. M. ideals. Although the average Freshman is in mortal terror of Descript, Duffy seems to have won them over. Among upper classmen he is equally as popular. His chief hobbies seem to be passing planes through inoffensive objects and marking up "perfect" drawings.

FLOYD HILL FRAME, A.B.

INSTRUCTOR IN PHYSICS

Mr. Frame has to be known to be really appreciated. Two years of physics under him makes him your friend for life. He is always willing to give you more than a square deal. It seems that he has quite a liking for a little farm, a cow, and a few chickens. He is a prof. who is really human when it comes to quizzes.

LESTER DAVISSON HAMMOND

A.B., A.M., PH.D.

ASSISTANT PROFESSOR IN CHEMISTRY

After grabbing a few degrees, Prof. Hammond came to Rolla to instill chemistry into the Sophomores. The Doctor is very reticent, and although he is seldom present at mass meeting, M. S. M. wants to know him better for what the school has seen of him in outside activity has been confined to squad drilling. This little bit has made all feel that they would like to know him better.



VAN BUREN HINSCH, B.S.  
*Phi Delta Theta*

INSTRUCTOR IN MATHEMATICS

Prof. Hinsch introduces the Freshmen to Trigonometry and Analytics. Solid is that Freshman's head who is unable to "get next" in his course. He is an old M. S. M. man and hasn't forgotten his college days. Prof. gets his E. M. degree this year.

NEIL CHARLES HUSTINPILLAR  
B.A.  
*Pi Kappa Alpha*

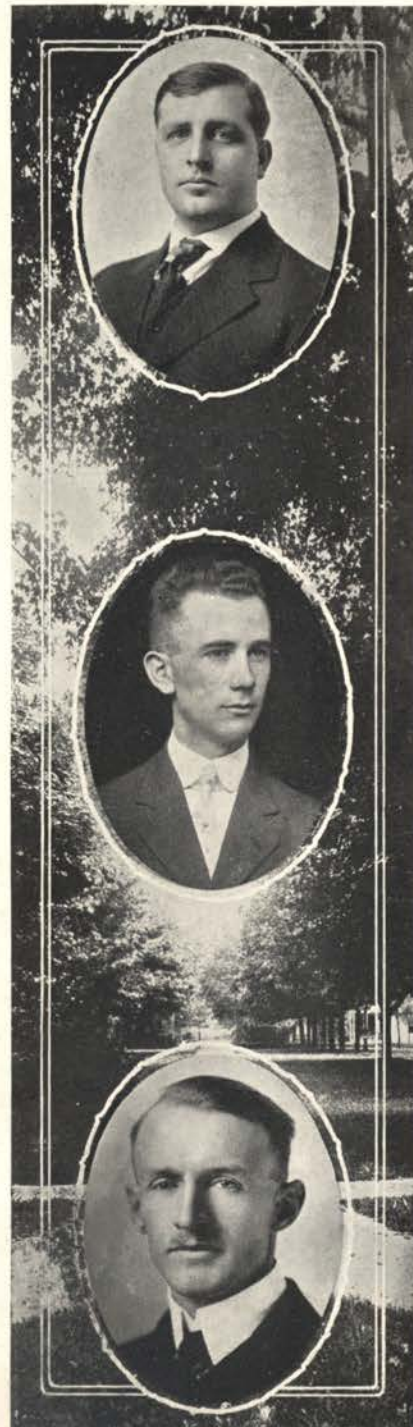
INSTRUCTOR IN ENGLISH

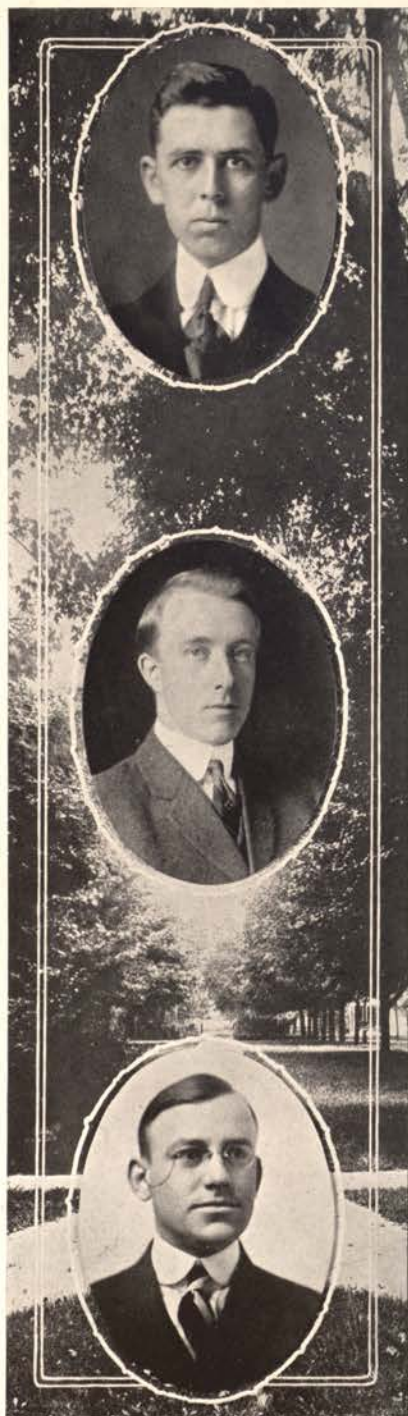
"Hustie" has the Freshmen all taking notice. From the size of the night school of the department, the course must be rigorous. He came back this year with a "Senior Perogative," and perhaps will "fuss" a little next year. He is a good fellow, even if the Freshmen are shy on English.

DONALD CAMPBELL KEMP, A.B.

INSTRUCTOR IN GEOLOGY

Kemp is a new man from Colorado University. His "fussing" and bent for geology must be overlooked in estimating him. He is on "kidding" terms with all the Juniors, and is noted for his second semester geology lectures.





STEWART LILLARD, B.S.

*Phi Kappa Phi*

INSTRUCTOR IN CIVIL ENGINEERING

Lillard came to M. S. M. from the University of Tennessee at the beginning of the second semester to help the Major quiz the civil engineers. It is to be regretted that he is so timid, as all who know him, like him. He is, however, fast becoming a real Miner.

GARRET A. MUILENBERG

B.A., M.S.

INSTRUCTOR IN GEOLOGY AND  
MINERALOGY

Muilenberg came from Golden to infuse mineralogy into the Sophomores and loud were the squeals when his crystallography quizzes bit down into the quick. His voluntary service to M. S. M. as a drill captain this spring marks him as a man interested in school activities.

WILLIAM HARRY RISHER, B.S.

*Emanon, Trowel Club*

INSTRUCTOR IN CIVIL ENGINEERING

Risher left M. S. M. at the mid-year to take a position in civil engineering as it is found in practice. All the boys regretted to seem him go, as his masonry classes were particularly refreshing and instructive, and a great delight to the aesthetic soul. "Rish," formerly, was a frequent visitor to the postoffice. Often returns to Rolla to look over his old haunts.



HAROLD LESLIE WHEELER  
A.B., B.L.S.  
*Phi Kappa Psi*

LIBRARIAN

Mr. Wheeler is a good librarian and is well liked by all the fellows. He rarely misses a mass meeting, and has the greatest amount of real "pep." He is the man largely responsible for the flagpole.

EDWIN KAHLBAUM

REGISTRAR

Mr. Kahlbaum is better liked the more he is known, even though better acquaintance means trips to the registrar's office, which usually means money. His judgment is good, and he is always willing to do anything for you. Frequently seen in his tin Henry disappearing toward Piney.

ROBERT R. DICKERSON

SUPERINTENDENT OF BUILDINGS AND  
GROUNDS

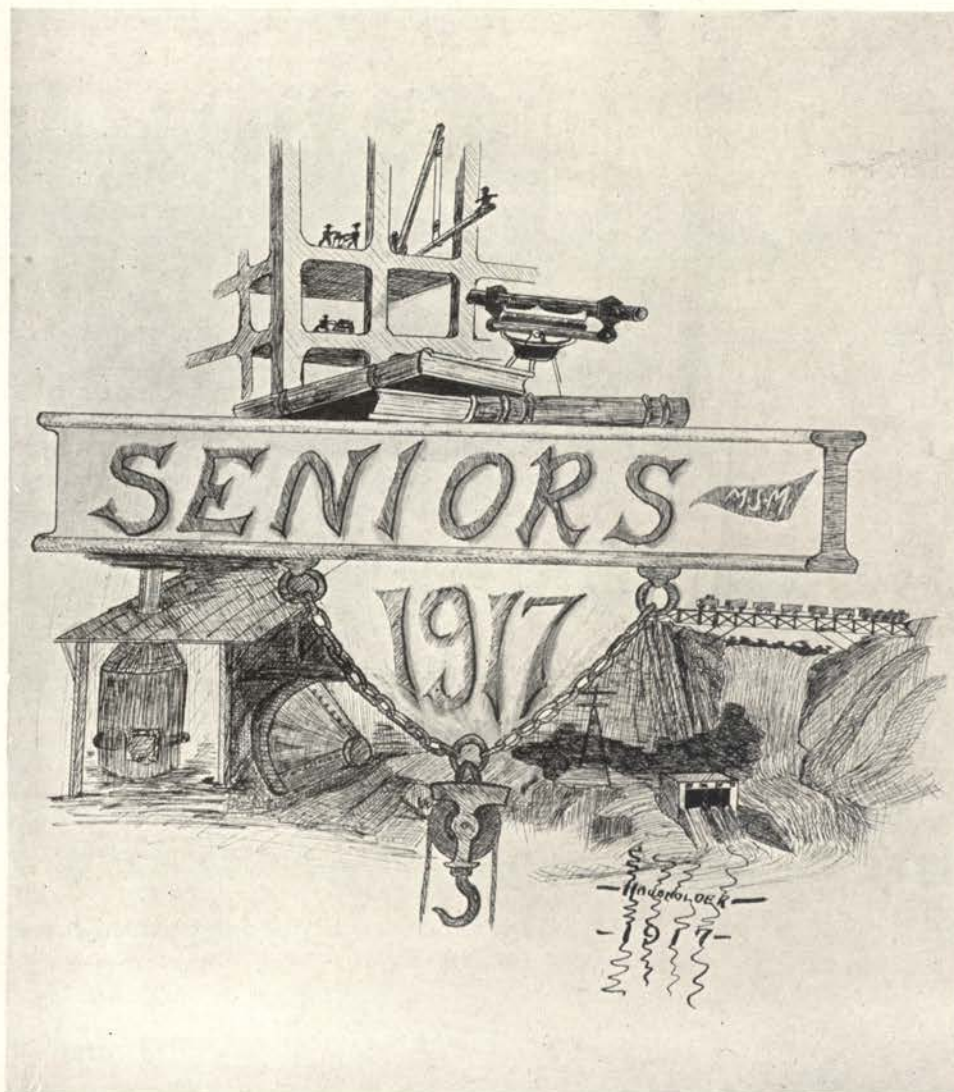
Mr. Dickerson is the elder brother of all the boys. He is a friend alike to Freshman, Sophomore, Junior and Senior. He is noted for his bi-annual "Keep off the Grass" signs, which disappear and "crop" up again in some club or frat room. The grounds about M. S. M. are always in perfect care, and "Bob" is always on the job.



## **Student Assistants**

EVAN EARL ASHLOCK  
STUDENT ASSISTANT IN DRAWING  
CLARENCE EDWARD BARDSLEY  
STUDENT ASSISTANT IN SURVEYING AND DRAWING  
JOSEPH C. BARTON  
STUDENT ASSISTANT IN MINING  
JAMES HENRY BOCK, JR.  
STUDENT ASSISTANT IN GEOLOGY AND MINERALOGY  
JOHN STAFFORD BROWN  
STUDENT ASSISTANT IN GEOLOGY AND MINERALOGY  
ROBERT BRUCE  
STUDENT ASSISTANT IN GYMNASIUM  
VICTOR HUGO DOELING  
STUDENT ASSISTANT IN ORE DRESSING AND METALLURGY  
HOWARD ANDREW HORNER  
STUDENT ASSISTANT IN ORE DRESSING AND METALLURGY  
JOHN LOGAN IMLAY  
STUDENT ASSISTANT IN GYMNASIUM  
WILLIAM HENRY KAMP  
STUDENT ASSISTANT IN GYMNASIUM  
FREDERICK ROBERT LANG  
STUDENT ASSISTANT IN CHEMISTRY  
MAURICE CECIL LUCKY  
STUDENT ASSISTANT IN GEOLOGY AND MINERALOGY  
EARLE NELSON MURPHY  
STUDENT ASSISTANT IN GYMNASIUM  
JAMES RAYMOND NEVIN  
STUDENT ASSISTANT IN GYMNASIUM  
BENJAMIN GUTHRIE NICHOLS  
STUDENT ASSISTANT IN CHEMISTRY  
JAMES WILLARD PUGH  
STUDENT ASSISTANT IN ORE DRESSING AND METALLURGY  
JOHN JOSHUA SHIPLEY  
STUDENT ASSISTANT IN DRAWING AND PHYSICS  
RAY OTTO SHRIVER  
STUDENT ASSISTANT IN CIVIL ENGINEERING  
LESLIE CARLISLE SKEEN  
STUDENT ASSISTANT IN SURVEYING  
OSCAR ELI STONER  
STUDENT ASSISTANT IN MINING  
MARK LOREN TERRY  
STUDENT ASSISTANT IN CHEMISTRY  
THOMAS PATRICK FRANCIS WALSH  
STUDENT ASSISTANT IN ENGLISH  
WALTER CHARLES ZEUCH  
STUDENT ASSISTANT IN PHYSICS  
LAWRENCE JOSEPH ZOLLER  
STUDENT ASSISTANT IN DRAWING AND ENGLISH





## Senior Class History



H. A. AMBLER  
President

Suddenly my hair stood on end and my feet felt as though they had been removed to Arctic regions, for at the other end of the drift I saw a band of yellow-clad creatures who seemed to be searching for something or someone. The dimmed light that I had left near my dinner pail revealed their vicious faces and clutching hands, and I crouched behind the muckpile in terror. Gradually the drift took on the appearance of Main Street back in Rolla—a nearby shute looked strangely like the old Grant House, and I imagined I could hear a Frisco engine go screaming into the Cut beyond town.

Ah, yes, my worst fears were realized, for in the cruel-looking visitors of my tunnel I recognized the Sophomore Class '16. A rock slipped beneath my trembling body and with a fiendish yell of "Sixteen" they swarmed over me and bore me away.

An opening down from the main adit, which I had hitherto considered as an innocent winze, suddenly appeared to be the moonlit surface of Frisco Pond, and with a huge stroke of a barrel stave I was hurled into its waters. My feeble "Seventeen! Seventeen!" was choked in my mouth, and when I regained consciousness I awoke hungry and sleepless in a friendly cowshed at the fair grounds.

Then followed a battle royal between myself and others who seemed to be like me and the same yellow-clad vampires. I was trussed up like a slaughtered beef, led around the crosscuts, and finally felled to the ground.

I wiped the sweat from my brow and once more gazed into the darkness, thankful that at last I was alone. Alas, a silent, grim array of spectres slowly approached and cornered me. Dimly I recognized Dana's Mineralogy and Lowe's Technical Analysis as two of the evil sprites. A third who had dye painted all over his body made a pass at me with a keen-edged slide rule and with a shriek of agony I yielded up my soul. As I did so I heard a gloating chuckle and my dimmed eyes saw a black-robed imp scrawl F and I upon a grade sheet.

Someone poured cool water over me as I tried to sit up to thank my deliverer, he vanished, but I saw upon his bucket the words, "Summer Vacation."

Oh, horrors! Scarcely had I recovered when the rocks trembled and a huge unconformity appeared. It had "gastropods" and "coelenterates" hanging to its ears and instead of hair "crinoids stems" and "baccolites" sprinkled its head. At its mouth dripped huge blotches of red ink, and I covered my hands and fled, for I knew the folly of combating with Structural and Historical Geology. At its side was a wiry little devil who resembled my old enemy Lithology.

As I turned I heard a splash of waters and a "trapezohedral orifice" opened up and delivered a frightful creature of gloom which seemed to take on the shape of a human. It had a shield like a Venturi water meter bearing the fearful Latin



motto, "Merriman's Hydraulics," and was armed with a large crooked Pitot tube. I could hear the demon mutter something about "formulas" and "peruse the text," and my courage only revived when a friendly spirit nearby pointed to a "uniformly loaded beam" and I took Mechanics' advice and lifted myself into the upper stope.

Alas for the tender hopes of poor mortals! I could not shake off one miserable demon who in spite of his Economic Geology disguise I recognized as the arch fiend—Structural Geology. Once more I saw the red ink and heard my doom prophesied.

Alas! in the upper stope I saw red-mouthed furnaces, and Sam Williams appeared with a long list of assay repeats. As I looked in despair at the array of R's, two other demons joined him and I recognized Registrar Kahlbaum and Fred Lane.

After a lively little frolic of delight, they leaned over and tried to sing me to sleep with a song which ran: "Where, Oh Where, is Your Wandering Contingent Fee Tonight?"

With a cry of a soul in despair I leaped across the raise and fell upon a conveyor belt which carried me onward. I looked up to meet the gloating eyes of Ore Dressing and Metallurgy, who promptly seized me and plunged me into a crusher. (Happily the Ore Dressing Lab machinery was out of order, as usual, so I escaped.)

As I did so, I heard the whistle of a power plant and a spectre hurled a huge "entropy" and a package of indicator cards. I ducked and ran for dear life.

For a while no one bothered me (I was on my Senior trip) and then, lo and behold! the specters and monstrosities came back once more. This time they were bowed and humbled, and behind them, smiling and peaceful, walked the professors of the school. They shook hands with me, and after a brief interval, during which they flipped nickels and cut cards, Doctor McRae said: "Class '17, you have passed through the necessary evils of college life, but before we can grant you your degrees, tell us what you have done for M. S. M."

Then gladly I spoke up and told how Pat Reilly, ably supported by the class when Juniors, made St. Pat's day famous. They smiled and even the Major checked an O. K. on his notebook. Then I described how Ebmeyer and the "Walshes" (who were of class '17) had made the Miner the biggest college paper in Missouri; how J. K. Walsh and Ambler, when on the Rollamo, had put out the best yearbook known to M. S. M.; how the Student Council was reorganized and how "J. K." "speechified" each mass meeting until a constitution was adopted, and the flagpole was a fact. The Miner Straw Vote and the Military Drill were all initiated by the Senior class '17. Likewise the successful Alumni banquets at St. Louis and Tulsa were started and pushed by '17.

In football Ole Nevin was acting captain when he, Bob Lyons, Doc Raible, Bock and Shrifer did their duty. In basketball Kluge, Peterson and Nevin made the team a formidable one, and in track Peterson jumped over everything.

Under our tutelage the Brotherhood of I. K. K. was established and the N. S. N. given a vigorous impulse.

The best student assistants were from Class '17, while the Taw Baits bothered each member night and day.

But just then "Doc" McRae interrupted, saying: "'Snuff! Class '17, M. S. M. is proud of you; the world needs you. Take your degrees—good luck, goodbye."

(Then everything vanished and I awoke from my dream just as the mine superintendent's light appeared in the distance.)

—J. K. W.



### HARRY ATWOOD AMBLER

*Tau Beta Pi, Theta Tau, Sigma Nu,  
A. I. M. E.*

#### METALLURGY

It has been a toss-up for the past year to know whether "Legs" was a Senior or a member of the Faculty and it looks more like the latter. Besides teaching chemistry, "Legs" has devoted much of his spare time to the duties of business manager of the Rollamo and as president of Senior class.

### EMMET LEE ARNOLD

*Quo Vadis, Beanery*

A.B., Drury College '15

#### GENERAL SCIENCE

Arnold dropped in on us as an unostentatious acquisition from Drury and buckled down seriously to the business of getting a B.S. Of late we have heard strange tales of his escapades in Rolla. Rivals Col. Woods when it comes to dancing. Is also famous for his military maneuvers in Jimtown and Springfield. Loves Geology department.



JOSEPH C. BARTON

*Theta Tau, Corsair, Benedicts' Club,  
A. I. M. E.*

MINING ENGINEERING

Joe came from Montgomery City, Mo., but has since transported his interests to Rolla where they (Joe and his wife) now reside. He is a Miner in the true sense of the word, and is Forbes' right-hand man. Joe is also an athlete, having received his M in track.

JAMES HENRY BOCK

*Tau Beta Pi, Troxel Club, N. S. N.,  
Kappa Alpha*

MINING ENGINEERING

Little Jimmy weighs about 200 and is an all-around man. Football M, Athletic Editor of the Rollamo, Assistant two years in shop and one in Geology, Tau Beta Pi, and still finds time to spend every week-end in St. James. Claims Muskogee, Oklahoma, as his home, but is fond of telling stories about Cobalt and the wild North. See Herivel's writeup.





## MARTIN F. BOWLES

*Theta Tau, Kappa Sigma, Trowel Club, A. I. M. E.*

### METALLURGY

Passes either as Martin or Jo and hails from East St. Louis. President of the Mining Association and Advertising Manager of the Rollamo. Can do things without making a fuss about it. Sports a wonderful set of whiskers but is very modest.

## JOHN S. BROWN

*Tau Beta Pi, Corsair*

### MINING ENGINEERING

Brownie originated in Barton County, Missouri, but now claims dear old Rolla for his home. Used to try to combine the occupation of a grind with the vocation of a poet but has since become an all-around assistant and understudy to Dake. Two years on the Student Council and Secretary of the Rollamo Board.



THOMAS RALPH CRAWFORD

*Sigma Nu, A. I. M. E.*

MINING ENGINEERING

A recruit from Kansas School of Mines who came to us in his Junior year. Signs up from Paola. Has been pretty well occupied keeping up to schedule but still has time to be a good fellow. Delights in Economic Geology. Ruined a Stetson at Powell's barn.

RICHARD DWYER COOPER

*Mucker, Assistant Librarian*

MINING ENGINEERING

Cooper divides his time between attending school and taking care of the library. Is one of the cohort from that big city east of us where they have street cars and automobiles. "Now, Mr. Cooper, will you please make that noise like a Ford?" Honk! Honk!





## RALPH DALE

*Mucker, A. I. M. E.*

### MINING ENGINEERING

The sun is always shining with "Rats" and a moving picture of him during Steam Lab would be the same as a time exposure. He destroyed what was perhaps the best facial adornment in the class all because of a feminine visitor St. Pat's day.

## PHILLIPS BROOKS DOLMAN

*Engineers, A. I. M. E.*

### MINING ENGINEERING

P. B. claims St. Jo, Buchanan County, as his legal residence but makes his home 'most anywhere. Has the distinction of having taken the Junior trip all by his lonesome. Is an expert on train schedules and box-car accommodations.



FRED L. EAMES

*Theta Xi, Pipe and Bowl, Beanery*

CIVIL ENGINEERING

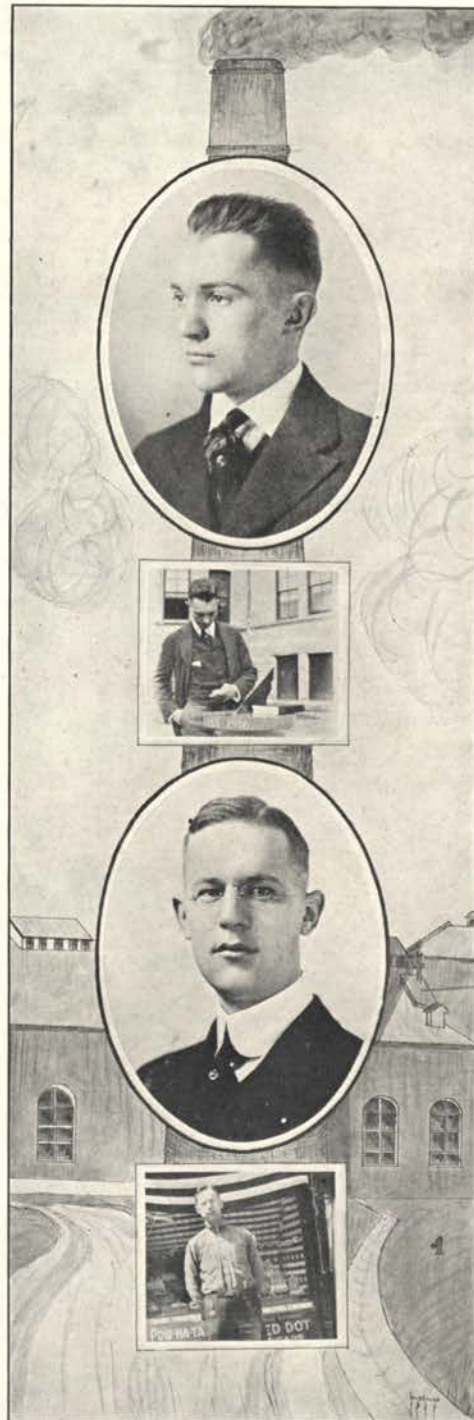
Fred joined us in his Senior year, coming here from Washington U. Is art assistant to Housie and takes keen delight in drawing cartoons of the Faculty. Main hobby is geology.

GERARD ERNEST EBMAYER

*Quo Vadis, Trowel Club, Prospector*

MINING ENGINEERING

Woof! Woof! Eb never fails to make a noise when invited or encouraged. Editor of the Miner. A true "Irish" son of the Kaiser who claims Chicago, lives in Rolla, and treasures spicy reminiscences of life in Milwaukee. Loves to fuss the Four Hundred. "Meester Ebmeyer, I fear these boxes are—"





FRANK S. ELFRED, JR.

*Kappa Alpha, Quo Vadis, A. I. M. E.*

METALLURGY

Quit his other interests to join the benedicts in the middle of his Junior year and then quit school, but thought better of it and returned this year. Always ready to spread something. Hopes to graduate on E's. "Oh, Stillman, is supper ready yet?"

ARTURO C. FERNANDEZ

*Corsair, A. I. M. E.*

MINING ENGINEERING

"Ferd" came from Monterey, Mexico, and started with the class of '15, but spent two years in his native land as an assayer and chemist. Has a fascinating manner that wins him many friends and is said to charm the ladies. Loves to "kid" the professors with easy questions. "Oi, Prowf! That's not right."



WALTER H. FRUEDENBERG

*Order of I. K. K., Trowel Club, N.  
S. N., Grubstaker, A. I. M. E.*

METALLURGY

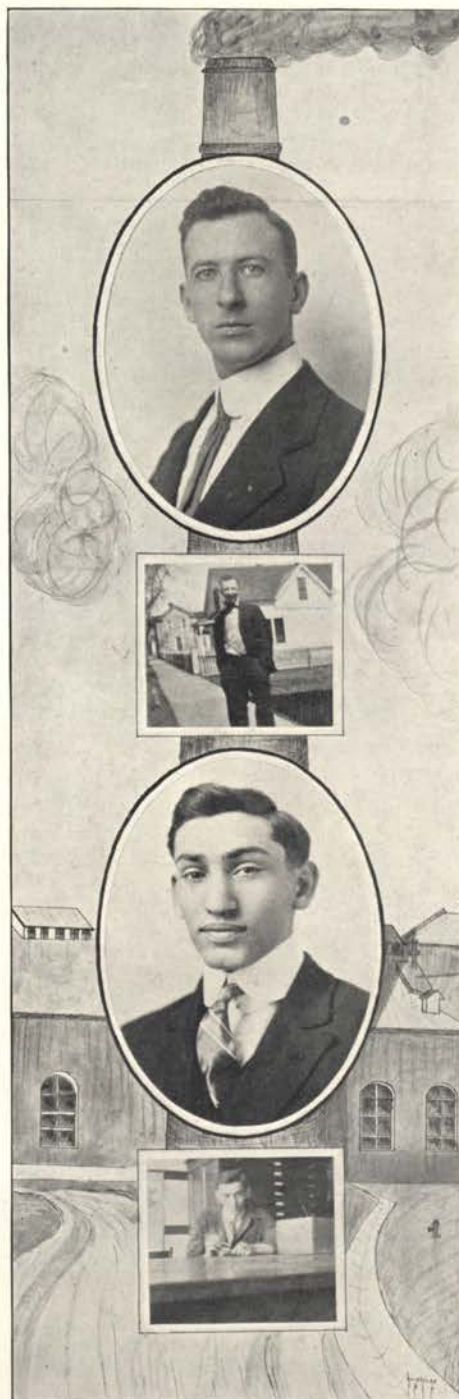
"Freudy" spent a year in Butte but got back on the job and joined the class. He hails from South St. Louis, and with him it never rains. Has an open awe for "sharks" and "guns" and refuses to tease them. Takes keen delight in assisting the Frisco Express department. "Heh, fellows, has Dean called the roll?"

DAVID GREENBERG

*Engineers' Club*

MINING ENGINEERING

"Greenie" sometimes gets careless and only gets an "S" in a subject instead of his customary "E." Chief indoor pastime seems to be peeking through a telescope at the rocks in Petrography although when it comes to the "manly art" he can handle his "dukes" to the consternation of much heavier opponents.





## WILLIAM GUEST

*Bonanza*

MINING ENGINEERING

"Bill" hails from Oklahoma; but we can't blame Oklahoma for that. He entered M. S. M. as a Senior, having attended the O. S. M. for three years. He tells weird tales regarding the high calorific power of the coal used in the assay lab at Wilburton. He was "wrinkled" so many times on circus day that he came near never being straightened out.

## RAMSEY C. HENSCHEL

*Order of I. K. K., Corsair*

MINING ENGINEERING

Ramsey is one of those fellows who keep their activities in the dark (or does them in the dark). Henschel is a "gun" in Mathematics and has been known to show up Garrett in Mechanics. His answers in Geology often bewilder and puzzle Dake. Makes occasional trips to Bourbon (name of a city, not of a beverage). Kansas City, Mo., claims his vote.



HAROLD T. HERIVEL

*Theta Tau, N. S. N., Kappa Sigma*

MINING ENGINEERING

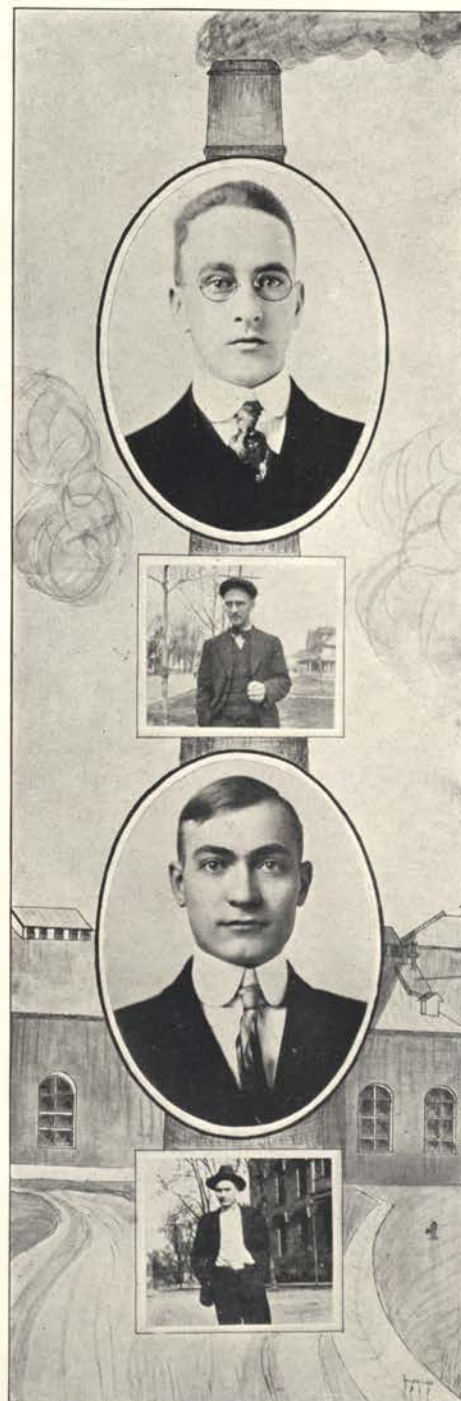
"Spike" or "Carranza" hails from the Channel Isles, England. Has several very pronounced characteristics, not the least of which are his abilities at balling out the Profs and falling in love with attractive grass widows. Loves to go to Fort Wyman on "Fly-day" night. Still bears the marks of his period of rooming with Bock. Would be arrested if his opinion of Jim were to be made public.

CLEMENCE W. HIPPARD

*Tau Beta Pi, A. I. M. E., Mucker*

MINING ENGINEERING

"Hip" upholds the honor of the Taw Bates and watches over the Y. M. C. A. with fatherly solicitude. Likes (?) to be called "Kluge" or "Clemence," and at such times expresses his ideas regarding the propriety of occasional murder. "Hip" fooled the boys this April by slipping off to Belleville and returning with a wife. Sleighbells? Student Council, '17.





## HOWARD ANDREW HORNER

*Lambda Chi Alpha, Theta Tau,  
Mucker*

"Jack" is "all wool and a yard wide"—he is almost that wide. He came to us from Penn State as a Junior, but at once fell into the spirit of doing things that M. S. M. way. He is actively associated with the Y. M. C. A. and edifies his flock with stories. He is Student Assistant in assaying, but says that his work around the furnaces is not preparing him for the next world. Amen!

## KARL WILLIAM HEIMBERGER

*Independent*

CIVIL ENGINEERING

"Kilowatt" is the noise machine of the school. He has more kinds of noises per pound of avoirdupois than any six zoos in captivity. He is a native of the Ozarks and says that he expects to remain here as long as the residents will stand for him. His mainstay in the line of studies is Freshman chemistry, which he takes every year just to keep in practice.



## FLOYD DIXIE JAMES

*Tau Beta Pi, Sigma Nu*

### METALLURGY

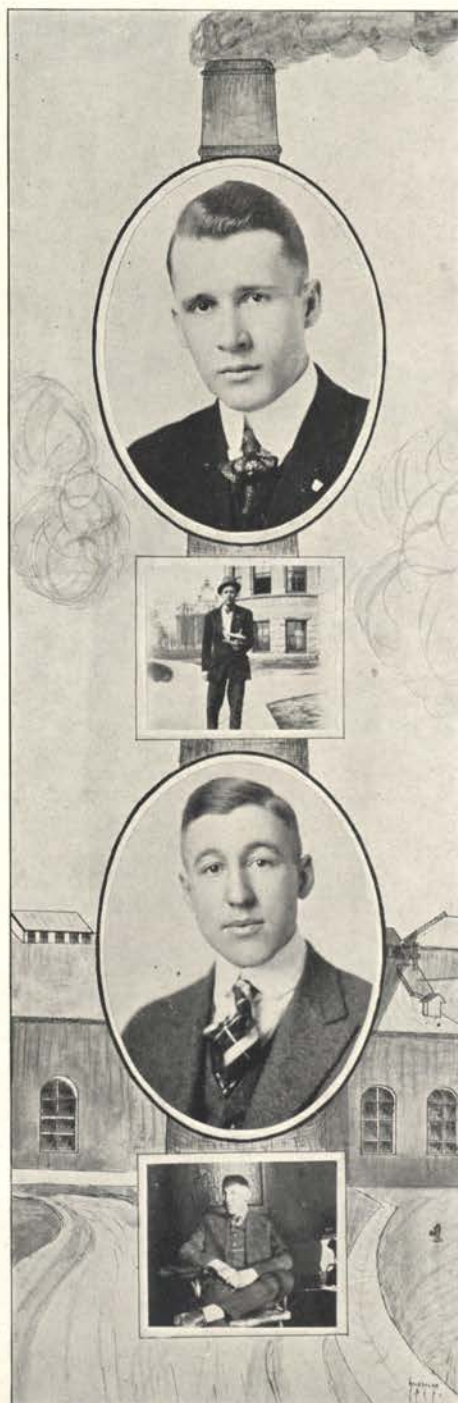
James is the learned (?) man of the class. Supposed to be a shark in the metallurgy of zinc. Has a habit of "killing" exams. Entered school with the class of '16, but remained out last year to get some practical experience. Annoys Thornie by hanging around the Experiment Station and getting in the way.

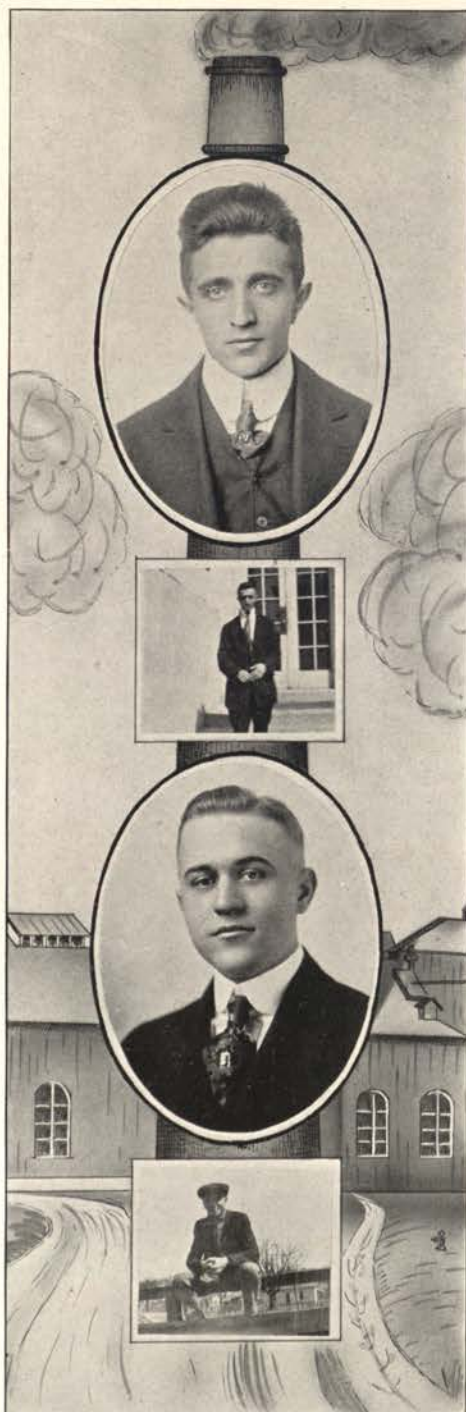
## HARRY ALBERT KLUGE

*Quo Vadis, N. S. N., Satyr, Mucker,  
A. I. M. E.*

### MINING

Harry claims that he is human, although he comes from Collinsville, Ill. Assistant Business Manager of Rollamo and "M" in basketball. Is often angered by being hailed as Hippard. Answers to the roll call, Kloogah? "Heeerr!" Hopes to imitate Clem Hippard?





## LOUIS KAPLAN

### *Engineers*

Kaplan is so quiet that he has never received a nickname. However, some of his actions do not go unnoticed. Ask him about those caps and gowns that he ordered for St. Pat's Day. Loves to impress the Profs or to argue on any subject.

## WILLIAM KAHLBAUM

### *Grubstaker, N. S. N.*

"Bill" is one of those bully good fellows that you seldom find a duplicate for. He comes from St. Louis (South St. Louis, we bet). "Bill" hates to let his books interfere with his college education. He would be even more popular if he did not help Fred Lane to use up the boys' contingent fees. He usually steps out at night in his "tin Henry" to see the ladies.



STANISLAW W. LESNIAK

*Engineers' Club*

MINING

Count came to M. S. M. from the old country and soon copped all the S's and E's that the Faculty could spare. He finished in January and took a position in Utah. Count distinguished himself as a talker at a little banquet given in his honor last semester.

MAURICE CECIL LUCKY

*Engineers*

MINING ENGINEERING

Lucky's only handicap is his name. Despite his cognomen, he continually loses in the games of tiddle-di-winks and poker. Is going to school to get a sheepskin, as he believes that he can get more money when he can officially put B.S. after his name. Was recently sued by Strobach for seventeen cents. At present, Duke's chief assistant in Geology and Mineralogy.





## ROBERT PAUL LYONS

*Quo Vadis, Mucker*

MINING ENGINEERING

"Bob" hails from Springfield, Mo. When he arrived in Rolla he was one of the quietest chaps that ever came from a Prep school, but four years at M. S. M. and a summer at Butte, Mont., broadened his views very greatly. Likes to take long walks, especially between St. James and Rolla. Made his "M" in football. Treasurer of the Mining Association. Quite a consistent fusser, and loves to orate at mass meetings.

## CLARENCE E. MUEHLBERG

*Kappa Alpha*

MECHANICAL ENGINEERING

"Mule" came to Rolla from Washington U. to help Prof. Dickerson reorganize M. S. M., particularly the new mechanical department. Delights in getting his overalls well sprinkled with oil in power plant. Defends South St. Louis. Is a shark in anything that looks or smells like steam.



JAMES RAYMOND NEVIN

*Order of I. K. K., Trowel Club,*

*Engineers*

MINING ENGINEERING

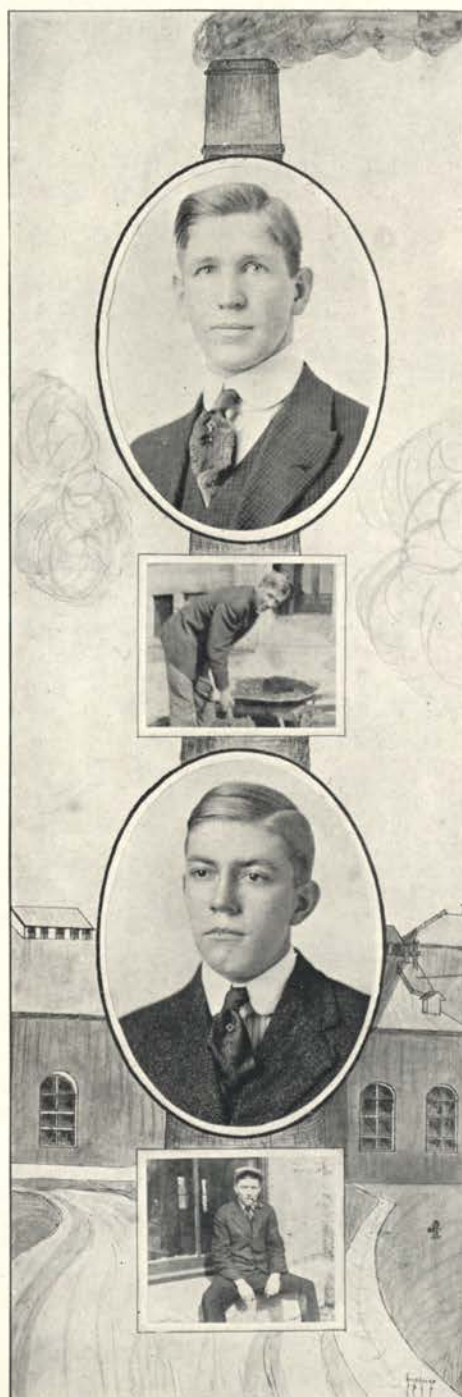
"Ole" is an Iowa product and lets everyone know it. He is father of all Freshmen and never fails to take some of them to the Phelps County Fair. For the past two years "Ole" has been the backbone of the football and basketball teams. Made letters in both. "Ole" was acting captain in football after Imlay was injured. President Athletic Association.

PAUL FREDERICK PAPE

*Bonanza Club*

MINING ENGINEERING

"Dad" Pape, the original "checks," hails from Cape Girardeau. His stories about attending Business College in St. Louis are his long suit. About Flat River he established quite a reputation as a "fusser," but never demonstrated it here. He has been a good steady worker and always "delivered the goods."





## CARL ALDEN PETERSON

*Kappa Alpha*

CIVIL ENGINEERING

Although Pete is said to be very forgetful, he never forgets how to break records in track work. Made his "M" in both basketball and track. He is known to have lost two suit cases of "beans" somewhere between the K. A. house and the depot. In Power Plant, he is Prof. Dickerson's right-hand man.

## JOSEPH C. RAIBLE, JR.

*Kappa Sigma, Pipe and Bowl, Satyr,*

*Quo Vadis*

"Doc" has never let his studies interfere with his college education. He is very fond of Butte, Mont. He has plenty of "college spirit," and has been a consistent worker in school activities. Is a "social lion" and has a "failing" for the ladies. "M" in football and baseball.



JOHN H. G. REILLY

*Kappa Alpha, Satyr, Quo Vadis*

MINING ENGINEERING

As a natural born executive "Pat" demonstrated his ability while president of the Junior Class '17. He did justice to Saint Patrick by impersonating him on St. Pat's Day, 1916. He had been an erratic "fusser" until his chief rival left for Bisbee, Ariz. Is noted for his reckless automobile driving. Helped to train the fellows for engineers' corps.

LEROY ROBERT SCHEURER

*Mucker*

MINING ENGINEERING

"Tex" is fast making Wichita Falls, Texas, a famous place by knocking off Prof. Mann in telling about "Hurley" methods. Is an all-around good scout, but like Clem H., he needs watching, as fussing has always been his weakness. Tries to compete with Frank Scott occasionally.





## HARRY J. SCHIERMEYER

*Order of I. K. K., Bonanza Club*

### METALLURGY

Besides chaperoning the Y. M. C. A. and restraining his fellow officers, Harry manages to attend to the library and incidentally to go to school. Attempted to raise a mustache during the early part of his Senior year. "I beg your pardon; are you a Freshman? Have a hand book."

## FREDERICK PINE SHAYES

*Engineers*

### MINING ENGINEERING

Shayes hails from Rochester, N. Y., but dreams of toting huge revolvers. Will conclusively argue on either or both sides of any question. Chief indoor sport is taking Petrography. Started as civil engineer, switched to metallurgy, and finally got around to mining.



JOHN JOSHUA SHIPLEY

*Tau Beta Pi, Kappa Sigma*

CIVIL ENGINEERING

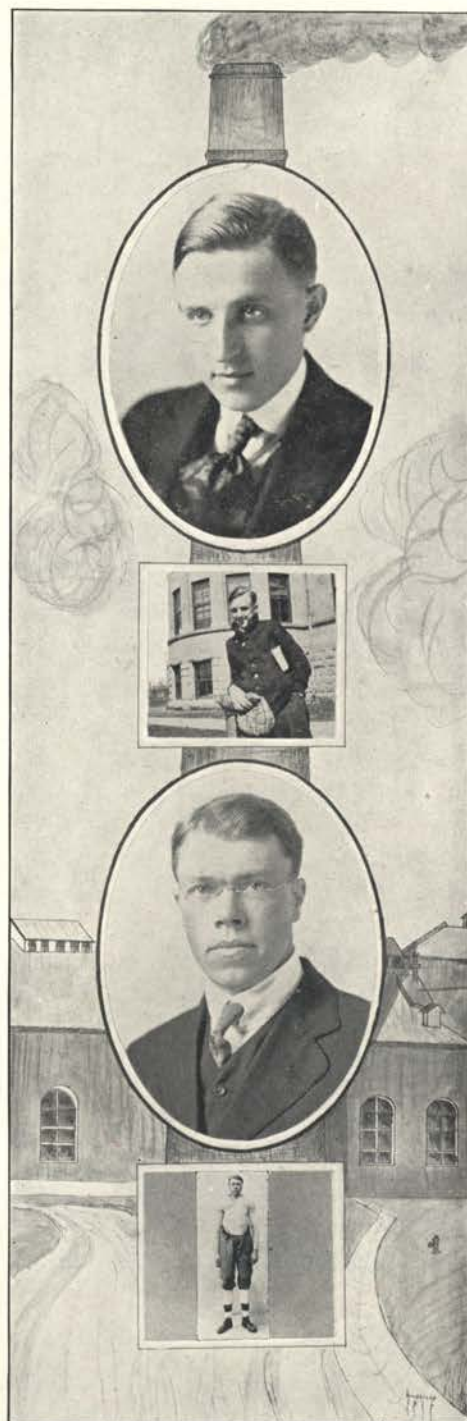
"Ship" is all there when it comes to work and leads "Woodrow" and Teas a merry chase. Has often been known to fuss and made a particular hit in "Bricks and Barons." Chief supporter of sundial—see snapshot.

RAY OTTO SHRIVER

*Tau Beta Pi, Theta Tau, Prospector*

CIVIL ENGINEERING

"Duke" is the original shark when it comes to grades and is also a gun in athletics, making his letter in football. Has had much practical experience, and is at the present time running the Civil Engineering department. Member Student Council, '17.





## HOWARD JONES TEAS

*Order of I. K. K., Corsairs' Club*

CIVIL ENGINEERING

After stumping the professor in civil engineering, Harvey retires for solace to his suburban home. Blushes nicely, but once refused to come under the mistletoe. Expects to become a member of the Benedicts' club in the near future. Harvey is a diligent student, and will undoubtedly attain success in the engineering profession.

## JOHN KENNEDY WALSH

*Order of I. K. K., N. S. N., Prospector, A. I. M. E.*

A.B., St. Louis University, '14

MINING ENGINEERING

"Jake" is truly Irish, although coming from South St. Louis, and is supremely happy when allowed to engineer mass meetings and make speeches. Editor-in-Chief of the Rollamo, Associate Editor of the Missouri Miner, chairman of Student Council, vice-president of Senior Class, author of famous tirades against the faculty, "What's Wrong with M. S. M.?" and politician of Miner straw vote. "Honorable Faculty, and gentlemen."



THOMAS P. F. WALSH

*Order of I. K. K., Prospector*

METALLURGY

T. P. F. hails from old St. Joe town and vigorously denies relationship with J. K. Is known as an English shark, and has been assistant instructor in this department for two years. Chief instigator and first president of the Metallurgical Society. Also indulges in newspaper work, being Senior Class reporter and Editor-elect of '18 Miner.

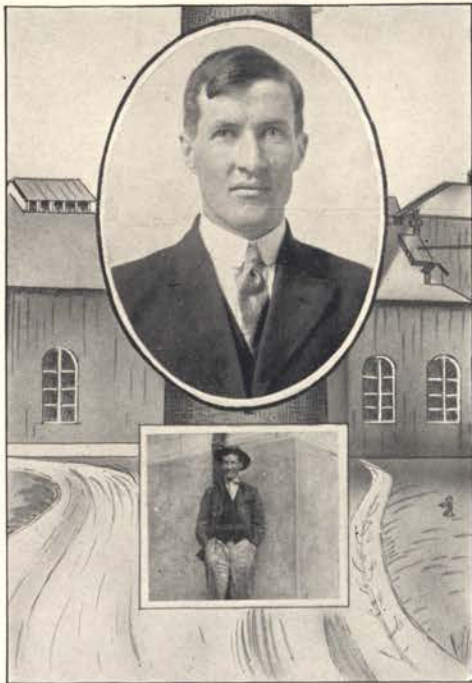
EARL JOSEPH WEIMER

*Theta Tau, Grubstakers' Club*

MINING ENGINEERING

When it comes to rivaling an encyclopedia or making the Profs jealous, Weimer is on the job. Attends class merely out of courtesy to the Faculty. Resembles Falstaff from a profile view. Is a good scout and one of the "guns." Loves to keep an eye on Freudenberg, especially on "Fly-day" night.





GEORGE BALDWIN WILSON  
*Order of I. K. K., Independents' Club*  
 CIVIL ENGINEERING

"Woodrow" is a home product of the Ozarks and one of the Major's sharks in Masonry. Has been seen with a female but vigorously denies it. All-around good scout and will make a first class engineer where strict attention to duty is required.







## Junior Class History



H. S. CLARK  
President

All fear of Mexican raids was over and the talk of German invasion from the south had long since failed to be heard. The men were once more back at work in the Border Mine, and the superintendent, a mining engineer from M. S. M., was watching the ore train crawl out from the adit to daylight. It was a lazy spring day and his thoughts were drifting with the breeze back to the crest of the Ozarks where on days such as these his college education had run amuck with his desire to go fishing. His eyes filled and for an instant were unseeing. Then his attention was attracted by something sticking in the ore pile nearby—a small black memorandum book with a large gold “M” on the cover.

The rescue accomplished, the superintendent sat down on the pile of tailings to “peruse this most precious text.” Opening it, he found the first page to be an identification tag. It

read, Name—Class of 1918; Home address—World Over; Rolla address—Missouri School of Mines and Metallurgy. Then came a class schedule with such subjects as Mechanics and Hydraulics. The superintendent shuddered and turned over a few pages to a section marked memorandum. Here was what he wanted and eagerly did he devour that contained therein.

“Born, September, 1914, the class of 1918, a most noble work of the powers that be. In childhood it was like other children—praised by mother school when doing good and chastised when naughty; beaten by its older brother in the class fight, in football, and in basketball, but victorious in track. It was this early training which developed men foremost in scholarship, athletics, literary pursuits, in fact in every activity about school—men who were not merely cogs in the school machine but shafts about which school activities turned. Yes, even more, they were the milling machines which turned out the notable affairs about school.



The early manhood of the class of 1918, the Sophomore year, was noteworthy for the pep shown as a big brother to the incoming class and for the application of that which was instilled and developed in the Freshman year. Where there were active men, there members of the Class of 1918 were found.

And in the prime of life, the Junior year, the true worth of this class was recognized. Juniors were active in everything for the good of M. S. M. The captain and a number of members of the football team were Juniors. Likewise Juniors were to be found among the foremost in other athletics and in literary pursuits. Leaders in associations and organizations were from this class. The St. Pat's celebration was an example of their social achievements and one of which they were justly proud.

Some had dropped by the wayside, but others had stepped in and taken their places with such vigor as to increase the power and to awaken any ambition which might have become dormant.

Always had the bearers of the 'Drill and Transit' proved the calibre of Class '18, and next year should see one of the best Senior classes M. S. M. has ever produced."

Smiling indulgently, the superintendent put the book in his pocket, and whistling the "Mining Engineer" softly to himself, entered the mine. When the whistle blew shortly after, one of the new drill runners, who, by the way, had vehemently insisted that he was not a college man but "practical and experienced," was seen searching the muck pile.

The superintendent, grinning, handed him his beloved diary. J. B. D.



## Juniors

### MINE ENGINEERING

|                                     |                    |
|-------------------------------------|--------------------|
| Boyer, Ray Vernon.....              | Tarkio, Mo.        |
| Burnet, George.....                 | St. Louis, Mo.     |
| Chavez, Raul.....                   | St. Louis, Mo.     |
| Corby, Harry Gilbert.....           | Carthage, Mo.      |
| Cunningham, Lorain Harry.....       | Columbus, Kan.     |
| Duga, Joseph Benjamin.....          | Bellaire, O.       |
| Flanders, Jerome Emerson.....       | Paris, Mo.         |
| Geib, Francis Hodgson.....          | Denver, Colo.      |
| Hippard, Wesley George.....         | Belleville, Ill.   |
| Housholder, Earl Ross.....          | Bowling Green, O.  |
| Kern, Paul Dean.....                | Monroe City, Mo.   |
| Lask, Harold Arthur.....            | Pasadena, Cal.     |
| Leonard, Speed Stephens.....        | Marshall, Mo.      |
| Maness, Orie Newell.....            | Webb City, Mo.     |
| Morris, John Munson.....            | Farmington, Mo.    |
| Murphy, Earle Nelson.....           | Vinita, Okla.      |
| Ore, Felipe Buenaventura.....       | Lima, Peru         |
| Powell, William Clark.....          | Rolla, Mo.         |
| Reber, William Houston.....         | Dallas, Tex.       |
| Schnaidt, Charles Michael.....      | St. Louis, Mo.     |
| Sherwood, Theodore Clayton, Jr..... | Kansas City, Mo.   |
| Skeen, Leslie Carlisle.....         | Big Stone Gap, Va. |
| Stoner, Oscar Eli.....              | Chester, Neb.      |
| Valentine, Herman Frederick.....    | Marshall, Mo.      |
| Zoller, Lawrence Joseph.....        | Tulsa, Okla.       |

### METALLURGY

|                               |                       |
|-------------------------------|-----------------------|
| Clark, Howell Smith.....      | Kansas City, Mo.      |
| Doeling, Victor Hugo.....     | Hannibal, Mo.         |
| Doennecke, Henry William..... | Davenport, Ia.        |
| Epperson, Charles Lee.....    | Joplin, Mo.           |
| Golick, Tony Frank.....       | Canton, Ill.          |
| Pugh, James Willard.....      | Kansas City, Mo.      |
| Shanfeld, Michael.....        | St. Louis, Mo.        |
| Stahl, Horace Reynolds.....   | Quincy, Ill.          |
| Terry, Mark Loren.....        | Jamesport, Mo.        |
| Velasco, Rafael Esteban.....  | San Luis Potosi, Mex. |

### CIVIL ENGINEERING

|                                |                  |
|--------------------------------|------------------|
| Bardsley, Clarence Edward..... | St. Louis, Mo.   |
| Dawson, Thomas Langhead.....   | Kansas City, Mo. |
| Heimberger, Karl William.....  | Rolla, Mo.       |
| Zuech, Walter Charles.....     | St. Louis, Mo.   |

### GENERAL SCIENCE

|                           |                   |
|---------------------------|-------------------|
| Fiedler, John Ray.....    | Shelbyville, Ind. |
| Wilson, Eldred Dewey..... | Rolla, Mo.        |

### MECHANICAL ENGINEERING

|                             |                |
|-----------------------------|----------------|
| Mellow, Richard Wesley..... | St. Louis, Mo. |
|-----------------------------|----------------|

### CHEMICAL ENGINEERING

|                             |                |
|-----------------------------|----------------|
| Goldman, Leon Harrison..... | St. Louis, Mo. |
|-----------------------------|----------------|











## Sophomore Class History

### PRESIDENT KRAUSE



F. A. KRAUSE  
President

After passing successfully through the vicissitudes of our Freshman year, and after a summer spent as practical miners, we returned to grapple with our proverbial foe, the Freshman. Unfortunately, we lost the fight and fickle fortune smiled upon our adversaries.

In other matters, however, we were more successful. The Sophomore Smoker was undoubtedly unsurpassable. Here friend and foe met and pledged their allegiance to a greater M. S. M.

In football we held the heavier Freshies to a scoreless tie. We walloped the "Fresh" in basketball and battled successfully with the other classes.

When St. Pat arrived at the school he was royally welcomed by us. Our class assisted materially in his entertainment, and their efforts helped make the day a great success.

Of the Class Banquet little need be said. It was a "pride and joy" to every Soph who attended.

Krause was our prexy; Bruce, the vice; and Nolte, the secy-treas. On the Miner we had Crow, Scott, Goldsmith, and Deckmeyer. On the gridiron the names of Bruce (captain-elect), Dowd, Brazill, Bohart, Krause and Oyler shine out with great brilliancy. Scott, "Kid" Wilson and Rice helped the coach in basketball. The 'varsity track team was practically Sophomoric. Brazill, Scruby, Aid, Bruce, Neice and Gill—greater trackmen M. S. M. has never known.

And so passed our Sophomore year, the happiest of our school career, and long will we remember our old class yell:

Drift and Cross-cut,  
Mill and Mine,  
Engineers,  
One Nine

—O. G.



## Sophomores

### MINE ENGINEERING

|                                   |                         |
|-----------------------------------|-------------------------|
| Aid, Harry.....                   | Gallatin, Mo.           |
| Alfend, Reuben.....               | St. Louis, Mo.          |
| Anderson, Sidney Lorenzo.....     | Springfield, Mo.        |
| Bates, Arle Haywood.....          | Flat River, Mo.         |
| Benton, Louis Brent.....          | Fort Worth, Tex.        |
| Beyer, Daniel Christopher.....    | Long Island City, N. Y. |
| Bohart, Phillip Harris.....       | Fort Worth, Tex.        |
| Brazill, Matthew Patrick, Jr..... | St. Louis, Mo.          |
| Bruce, Robert.....                | Wellington, Kan.        |
| Burgesen, John C.....             | Kansas City, Mo.        |
| Crow, Wayman.....                 | St. Louis, Mo.          |
| Decker, Ernest Ethridge.....      | Waynesville, Mo.        |
| Dowd, Raymond John.....           | St. Louis, Mo.          |
| Durning, William Clarence.....    | St. Louis, Mo.          |
| Eulich, Artileus.....             | St. Joseph, Mo.         |
| Ewing, Harold Kline.....          | Odessa, Mo.             |
| Farmer, Raymond Louis.....        | Lebanon, Mo.            |
| Fast, Joseph Bernard.....         | Chicago, Ill.           |
| Forman, Percy Grant.....          | Rolla, Mo.              |
| Goldsmith, Osher.....             | Dallas, Tex.            |
| Goodwin, George Gerald.....       | Kansas City, Mo.        |
| Gotsch, Oscar Henry, Jr.....      | St. Louis, Mo.          |
| Gray, William Douglas.....        | New York City           |
| Hansen, Knud Fabricius.....       | Copenhagen, Denmark     |
| Harlowe, Leslie Steele.....       | Covington, Ind.         |
| Hodges, Joseph Tipton.....        | Granby, Mo.             |
| Hurd, Harold Waller.....          | Paris, Mo.              |
| Larsh, Napoleon Bonaparte.....    | Rolla, Mo.              |
| Marston, Robert.....              | El Paso, Tex.           |
| Miller, Galen.....                | Joplin, Mo.             |
| Moore, Frederick Vail.....        | Crystal City, Mo.       |
| Morris, Thomas Carson.....        | Farmington, Mo.         |
| Niece, William Latchaw.....       | Tulsa, Okla.            |
| Page, James Harold.....           | Rolla, Mo.              |

Petsch, Arthur Henry.....Lexington, Mo.  
 Pray, Donald Porter.....Wellington, Kan.  
 Pryor, George Willis.....Bethany, Mo.  
 Rice, Carl Clark.....Rolla, Mo.  
 Rodenbaugh, Elmer Sidney.....St. Louis, Mo.  
 Scott, James Walter.....Rolla, Mo.  
 Scruby, Horace Dwight.....Chillicothe, Mo.  
 Shore, Harold Frank.....Chillicothe, Mo.  
 Starkey, Alvah Chapman.....San Diego, Cal.  
 Stokes, Lawrence William.....Kennett, Mo.  
 Wilson, Clarence Chamberlain.....Lexington, Mo.  
 Wilson, Kenneth Campbell.....Globe, Ariz.

#### METALLURGY

Deckmeyer, Frederick.....St. Louis, Mo.  
 Gill, James Pressley.....Montgomery City, Mo.  
 Leach, Thomas Witt.....Pine Bluff, Ark.  
 Lynn, Earl Albert.....St. Louis, Mo.  
 Oakleaf, Lovell Randal.....Cherryvale, Kan.  
 Potts, Allen Dewey.....Pittsburgh, Pa.  
 Scothorn, Carl William.....Junction City, Kan.  
 Weiser, Hanley.....Webster Groves, Mo.

#### CIVIL ENGINEERING

Ashlock, Evan Earl.....St. Louis, Mo.  
 Harris, Harold Shelton.....Morley, Mo.  
 McCarthy, Merryl.....Farmington, Mo.  
 Williams, Anvil Clark.....Sullivan, Mo.

#### GENERAL SCIENCE

Kerr, Arthur John.....Rolla, Mo.

#### ELECTRICAL ENGINEERING

Beck, Stanley Ashton.....Clifton, Ariz.  
 Lottmann, Walter Frederick.....St. Louis, Mo.

#### CHEMICAL ENGINEERING

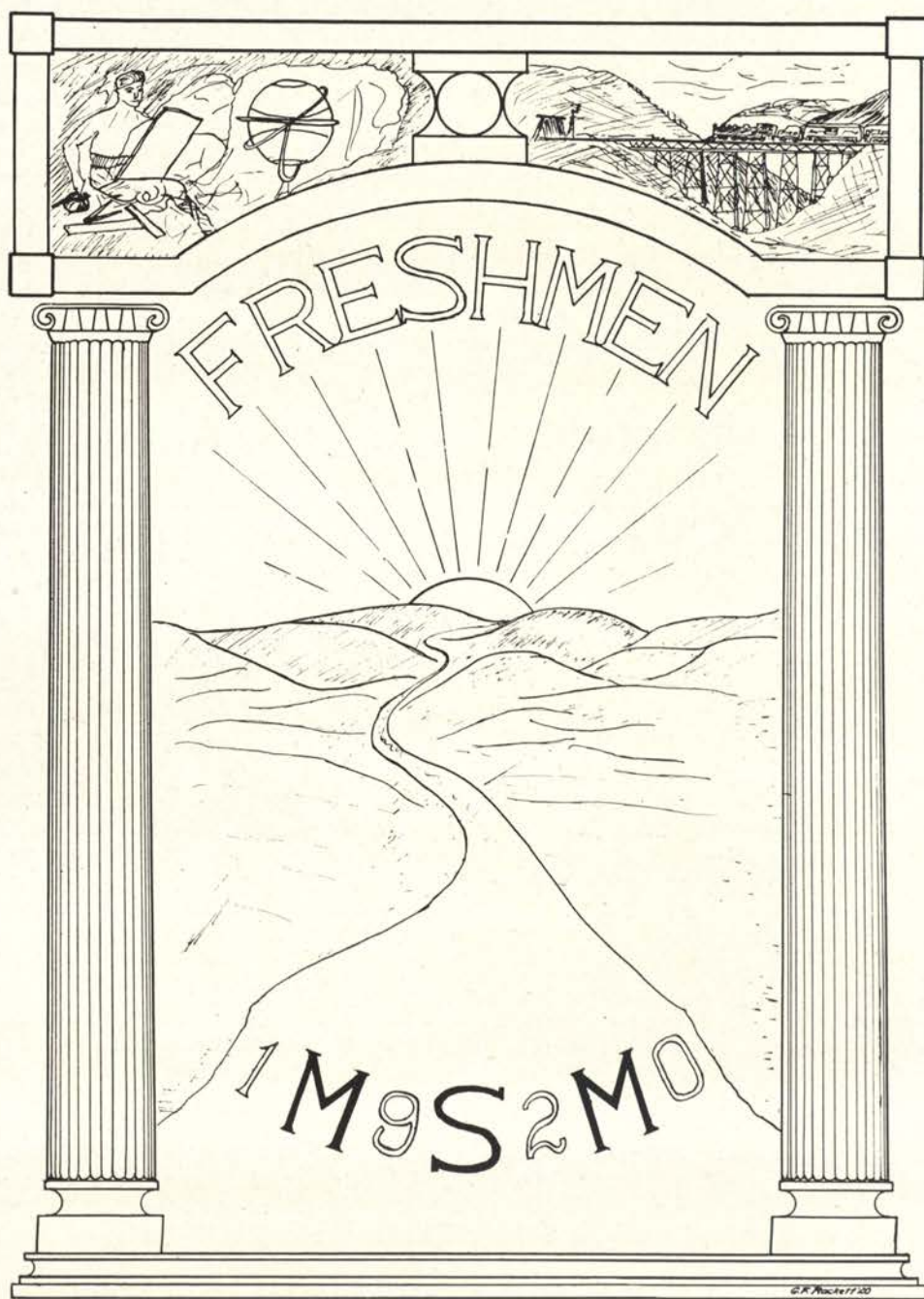
Badollet, Marion Smith.....Vincennes, Ind.  
 Bash, David Anderson.....Hannibal, Mo.  
 Dorris, Charles Lester.....Collinsville, Ill.  
 Krause, Frederick Arthur.....St. Lou's, Mo.  
 Lang, Frederick Robert.....St. Louis, Mo.  
 Nichols, Benjamin Guthrie.....East St. Louis, Ill.  
 Oyler, William Ellsworth.....Marceline, Mo.  
 Smiley, Vivien X.....Hannibal, Mo.  
 Wilkinson, Paul DeLassus.....St. Louis, Mo.











## Freshman Class History



I. B. JOHNSON  
President

Like all preceding Freshmen classes we were as the reflection of the Emerald Isle, and although big in number, the fear of the Great Unknown weighed heavily upon our minds. When we stepped from the Frisco train we felt as though the last bonds that held us to home and mother were rudely cut and that a cruel world was about to engulf us, for everywhere were khaki-trousered Sophomores who gazed at us in ill-concealed fondness. Our knees quaked, our tongues parched, and immediately we wondered why we ever wanted to become "Rolla Miners."

In about five more minutes we answered our own problem when we shook hands with the old timers and realized what good fellowship really was. Everywhere we turned, we met with a smile and a welcome, and our needs were attended to. And then we said to ourselves, "No matter what happens, we like M. S. M."

In the few days following we were allowed to wend our weary ways in peace, but, oh! the nights of fear-racked souls and vigilant Sophs. The tune of the Sacred Barrel Stave was played on many a squirming body and Frisco pond was so saturated with Freshmen that Schuman's cows refused to drink the water. Poor Laun was immersed in various ways. Rackett was galloped all over and systematically exercised and every other Freshman was treated to devilish methods. Rolla's picture show was crowded with the fair sex each night that we were requested to sing and dance in public, and many a brave heart sickened under the giggles and feminine whispers.

Alas, came Sunday, Sept. 17th, and in the afternoon we hurried from the dubious shelter of our rooms and retreated to the friendly trenches at the fair grounds to spend an uncomfortable night of fear and apprehensions.

Of the battle we have little to say, for we won from force of numbers and chiefly because the Sophomores treated us squarely and were not helped by upper classmen.

In spite of our victory we wore our green caps and tipped them to upper classmen, for we realized that we were of M. S. M. and should obey its traditions.

At our second class meeting we elected I. B. Johnson, President; G. B. Bloom, Vice-President; O. L. Whitworth, Secretary, and H. W. Hurst, Treasurer. Johnson, White, Hays and Place did duty on the gridiron. In basketball Dorris, Johnson, White, Wright and Haase helped the Miners to victory. On the Missouri Miner we had George Clayton and C. B. Hummel, while J. M. Klyman made an excellent representative on the Student Council.

We lost our inter-class basketball series, but victory smiled on us when we tied the Sophs in football.



## Freshmen

|                                   |                      |
|-----------------------------------|----------------------|
| Ackers, Albert Louis.....         | Staunton, Ill.       |
| Bailey, Harold Leland.....        | Virginia, Ill.       |
| Barnard, Charles Russell.....     | St. Louis, Mo.       |
| Bloom, George Barnett.....        | Maysville, Mo.       |
| Cairns, Arthur Lee.....           | Cape Girardeau, Mo.  |
| Cameron, Campbell Robinson.....   | McAlester, Okla.     |
| Carson, William Thomas.....       | Alton, Ill.          |
| Casselman, Lawrence Owen.....     | Rolla, Mo.           |
| Chappell, Prudence.....           | Rolla, Mo.           |
| Charles, Beryl Elwood.....        | Saline, Kan.         |
| Clayton, George Dillard.....      | Hannibal, Mo.        |
| Conrad, John Dewitt.....          | Hamilton, Mo.        |
| Cox, Henry Cicero.....            | East St. Louis, Ill. |
| Crutcher, Welborn Ball.....       | Marshall, Mo.        |
| Czaderski, Maksymilian Josef..... | Chicago, Ill.        |
| Davidson, Lewis Ely.....          | Savannah, Mo.        |
| Dickerson, Frederick Clair.....   | Salem, Mo.           |
| Donai, Willard Bartholomew.....   | Des Moines, Ia.      |
| Dorris, Milburn Leo.....          | Collinsville, Ill.   |
| Duffy, Charlie.....               | Greenfield, Mo.      |
| Dunlop, William Harry.....        | Beardstown, Ill.     |
| Elkins, Charles Edgar.....        | Dixon, Mo.           |
| Evans, John Raymond.....          | Chillicothe, Mo.     |
| Fenelon, Charles.....             | Chillicothe, Mo.     |
| Finlay, William James.....        | Webster Groves, Mo.  |
| Forgotson, James Morris.....      | St. Louis, Mo.       |
| Fox, George Howard.....           | Butler, Mo.          |
| Gettler, Carl Andrew.....         | Hannibal, Mo.        |
| Goolsby, Joseph Arthur.....       | Rolla, Mo.           |
| Haase, Walter Stracke.....        | St. Louis, Mo.       |
| Hahn, Abner Decker.....           | Muscatine, Ia.       |
| Haley, Ralph Alwood.....          | Carl Junction, Mo.   |
| Halligan, Charles Francis.....    | Union, Mo.           |
| Hammer, Bernard Eli.....          | Stanton, Mo.         |
| Hayes, Stanley Merton.....        | Wellsville, Mo.      |
| Hodges, Isaac.....                | Granby, Mo.          |
| Hollow, Edward John.....          | Cuba, Mo.            |
| Hoppock, Harland Hobart.....      | Lebanon, Mo.         |
| Howald, Arthur Mark.....          | Rolla, Mo.           |
| Howendobler, John Leslie.....     | Tulsa, Okla.         |



|                                |                      |
|--------------------------------|----------------------|
| Hume, Horace Catlett.....      | Waco, Mo.            |
| Hummel, Carl Bernard.....      | Kirkwood, Mo.        |
| Jackson, James Taylor.....     | Marion, Ind.         |
| Johnson, Edwin Charles.....    | Schenectady, N. Y.   |
| Johnson, Noah Purcell.....     | Vincennes, Ind.      |
| Johnson, Richard Love.....     | Henryetta, Okla.     |
| Johnston, Irvin Benson.....    | St. Louis, Mo.       |
| Jungk, Carl Frederick.....     | Wichita Falls, Tex.  |
| Keeler, William Weaver.....    | Tulsa, Okla.         |
| Klyman, Julius Hart.....       | St. Louis, Mo.       |
| Kroenlein, George Alfred.....  | St. Louis, Mo.       |
| Laun, Albert Charles.....      | St. James, Mo.       |
| Lehman, Harold Wesley.....     | Weeping Water, Neb.  |
| McMillen, Frank Morris.....    | Branson, Mo.         |
| Mann, Marion Robert.....       | Gallatin, Mo.        |
| Meyer, John Harold.....        | Mountain Grove, Mo.  |
| Miller, John Gaines.....       | Marshall, Mo.        |
| Norville, Glen Smith.....      | Beardstown, Ill.     |
| Novak, Joseph, Jr.....         | St. Louis, Mo.       |
| Olson, Carl Nathan.....        | Galesburg, Ill.      |
| Owen, Luther Cecil.....        | Joplin, Mo.          |
| Place, Roscoe Nelvin.....      | Gallatin, Mo.        |
| Pope, Frederick Alexander..... | Wheaton, Ill.        |
| Rackett, Gerald Franklin.....  | Chicago, Ill.        |
| Richmond, Wendell William..... | Hannibal, Mo.        |
| Runge, Charles Adelbert.....   | Kirkwood, Mo.        |
| Sherman, Benjamin Edward.....  | Tahlequah, Okla.     |
| Slover, Edwin Allsop.....      | East Orange, N. J.   |
| Sour, Stanley Sylvian.....     | Rusk, Ark.           |
| Sprigg, Simeon Norwood.....    | Marshall, Mo.        |
| Stanfield, Edwin R.....        | Oronogo, Mo.         |
| Stroup, Robert Knox.....       | Quincy, Ill.         |
| Stubbins, John Russell.....    | Paris, Mo.           |
| Stubbs, Robert Newton, Jr..... | Kirkwood, Mo.        |
| Taggart, William Miskey.....   | St. Louis, Mo.       |
| Taylor, Frank Huston.....      | Rolla, Mo.           |
| Tidd, Luzerne Maurice.....     | Webster Groves, Mo.  |
| Turnbull, Raymond Miles.....   | Schenectady, N. Y.   |
| Uthoff, Fred William.....      | St. Louis, Mo.       |
| White, Fred.....               | East St. Louis, Ill. |
| Whitworth, Virgil Lee.....     | Nevada, Mo.          |
| Wills, Ronald Blair.....       | Evansville, Ind.     |
| Wright, Kenneth.....           | Kansas City, Mo.     |
| Zieseniss, Harry Wesley.....   | Rolla, Mo.           |





## Special Students

|                                     |                        |
|-------------------------------------|------------------------|
| Baker, William Frank.....           | Dorchester, Mass.      |
| Chappell, Prudence.....             | Rolla, Mo.             |
| Crenshaw, John Renoir.....          | St. Louis, Mo.         |
| Ehler, Otto.....                    | Washington, Mo.        |
| Etem, Charles August.....           | Kansas City, Mo.       |
| Fleming, James Taaffe.....          | St. Louis, Mo.         |
| Gaffney, James.....                 | St. Louis, Mo.         |
| Gerber, Clarence Oliver.....        | Kansas City, Mo.       |
| Gould, Gordon.....                  | St. James, Mo.         |
| Hill, James Crane.....              | Carthage, Mo.          |
| Hurst, Henry William.....           | Kansas City, Mo.       |
| Imlay, John Logan.....              | Waukesha, Wis.         |
| Johnson, George F.....              | Tulsa, Okla.           |
| Kamp, Henry George.....             | St. Louis, Mo.         |
| Lawrence, Hiram Pettibone.....      | St. Louis, Mo.         |
| Lenox, Jennie Lynn.....             | Lake Springs, Mo.      |
| Mann, Walter Jay.....               | Canon City, Colo.      |
| Mesloh, Herbert George.....         | St. Louis, Mo.         |
| Moore, James John.....              | Springfield, Mo.       |
| Powell, William Clark.....          | Rolla, Mo.             |
| Riddlesperger, Ralph Rudolphus..... | Springfield, Mo.       |
| Rinehart, Volia Lendel.....         | St. James, Mo.         |
| Schumacher, Leon Burr.....          | St. Louis, Mo.         |
| Tao, Hung Tao.....                  | Chaotung, Yunan, China |
| Triefenbach, George Louis.....      | St. Louis, Mo.         |
| Turner, Basil Harold.....           | St. Louis, Mo.         |









## In Memoriam

Harry Dallas Dunaban Ex. '17

Almon W. Hare = = = '75

Felix Anthony Lyneman '08

P. A. McHugh = = Ex. '86

Herbert Arno Roesler = '03

Edmund Otis Stolicke = '14

Freemont Wilson = = '85

George Woodhall, Jr. = '91

James Albert Worley, Jr. '17

# Athletic Association

## OFFICERS

JAMES R. NEVIN, '17.....*President*  
 JOHN H. G. REILLY, '17.....*Vice-President*  
 GERARD E. EBMAYER, '17.....*Secretary*  
 OSCAR E. STONER, '18.....*Manager*  
 EDWARD KAHLBAUM, Registrar.....*Treasurer*

## FACULTY COMMITTEE ON ATHLETICS

EDGAR S. McCANDLISS, Chairman

JOSEPH W. BARLEY  
 CHARLES Y. CLAYTON

JOSEPH H. BOWEN  
 CARROLL R. FORBES

## BOARD OF CONTROL

JAMES R. NEVIN, '17.....*President*  
 EDWARD KAHLBAUM.....*Secretary-Treasurer*  
 OSCAR E. STONER, '18.....*Manager*  
 PROFESSOR FRANK E. DENNIE.....*Athletic Director*  
 PROFESSOR EDGAR S. McCANDLISS.....*Faculty Member*

## CAPTAINS OF TEAMS, 1916-17

JOHN L. IMLAY.....*Football*  
 JAMES R. NEVIN.....*Basketball, Baseball*  
 CARL A. PETERSON.....*Track*

## "M" MEN IN FOOTBALL, 1916

|                                   |                            |
|-----------------------------------|----------------------------|
| James R. Nevin, '17, Acting Capt. | Irvin B. Johnston, '20     |
| Robert Bruce, '19, Capt.-elect    | Robert P. Lyons, '17       |
| Philip H. Rohart, '19             | Orie N. Maness, '18        |
| Matthew P. Brazill, Jr., '19      | Joseph C. Raible, Jr., '17 |
| Lorain H. Cunningham, '18         | Roy O. Shriver, '17        |
| Thomas L. Dawson, '18             | Frederick White, '20       |
| Raymond J. Dowd, '19              | Lawrence J. Zoller, '18    |

## "M" MEN IN TRACK, 1916

|                                    |                       |
|------------------------------------|-----------------------|
| Frederick R. Heman, '16, Capt.     | John L. Imlay, '18    |
| Carl A. Peterson, '17, Capt.-elect | Earle N. Murphy, '18  |
| Matthew P. Brazill, Jr., '19       | Horace D. Scruby, '19 |
| John W. Goodman, '19               | Joseph G. Wilson, '17 |

## "M" MEN IN BASEBALL, 1916

Wm. H. Kamp, '16, Captain

|                                    |                            |
|------------------------------------|----------------------------|
| Joseph G. Wilson, '17, Capt.-elect | Joseph C. Raible, Jr., '17 |
| Arle H. Bates, '19                 | Leslie C. Skeen, '18       |
| Thomas L. Dawson, '18              | Robert J. Smart, '18       |
| Raymond J. Dowd, '19               | Kenneth C. Wilson, '19     |
| Tony F. Golick, '18                | Walter C. Zeuch, '18       |



# FOOTBALL.



## Football Review, 1916

In looking back upon the past football season it seems that there is more that can be left unsaid than said.

Practice started with about twenty men out. Coach Dennie was back upon the job with "Wag" Wagoner as assistant. Mr. Wagoner came to us from Illinois University, where he played on the 1915 team. Imlay, Bruce, Raible, Dawson, Lyons, Nevins and Brazill were back in uniform and conditions looked very promising.

For some unknown reason there were more injuries among the squad men this year than in the last two or three years combined. Whether this was due to poor condition or to the fact that many of the players were inexperienced is hard to say. It was certainly discouraging at least to have such men as Imlay, Brazill, Dowd, Johnston and others on the bench when their presence in the lineup would have made such a serious difference.

If judged from the standpoint of games won, we must admit that the season was a failure as we only won one out of eight games played and that with a margin of safety of one point. However, we believe that no football season could be called a failure when the players fought so valiantly against seemingly overwhelming odds. All credit should be given the men who devoted their time and energies to upholding the school with such discouraging results.

The teams that defeated the "Miners" were composed of seasoned players and were teams that have been building up for the last two or three years. The "Miners" lost some valuable men from the last year's team and the coaches had the problem of training new men to take their places. This, combined with the fact that some of the older men were injured, probably accounted for the defeats.

A great improvement could be seen in the new men and M. S. M. has every reason to expect a winning team in 1917 if a good majority of these new men are back.

As has been said before, it is not always the results but the spirit which counts, and looking at things in that light we say that our football season was a success.

Let us all work together for a record breaking team in 1917.





#### CAPT. JACK IMLAY

Jack was disabled in the first game of the season and was never able to don the moleskins again in 1916. Jack was looked upon as the mainstay of the team and his injury was a serious blow. M. S. M. will never see a more reliable or speedier halfback.

#### NEVIN, TACKLE

"Ole" was acting captain throughout the season. The punishment that he took in the Texas game was enough to kill an ordinary man, but he always stayed until the last whistle. Was one of the most valuable men on the team.

#### CAPT.-ELECT BRUCE, CENTER

Everyone admits that there never was a harder fighter than Bruce. His fighting spirit never waned even in the face of certain defeat, and his election to captaincy was a fitting reward for his services.



#### LYONS, END

Bob played his end of the line so well that he seemed to be a stone wall. He very often tackled the runner before he could reach the line of scrimmage. His defensive work was excellent.

#### "DOC" RAIBLE, QUARTERBACK

"Doc's" judgment of plays was excellent. He handled the team smoothly and efficiently and his tackling was good at all times. We hope to see him win his third letter next year.

#### DAWSON, HALFBACK

We only regret that Tommy is not as good in Geology as he is in football. He is little, but "Oh, my." The way he sailed into "Moose" Campbell of Warrensburg gave that team no little concern. If Tommy weighed 50 pounds more he could play with any team in the country.





#### RAY O. SHRIVER

"Pop" Shriver is the material that makes winning teams possible. He is the man of courage and unflinching spirit who for three years donned the moleskins as a scrub. In his fourth year he was one of the mainstays of the team, and with the good wishes of the school was awarded his letter for hard, consistent football and faithful service.

#### BRAZILL, HALFBACK

Michael Patrick was unable to be in more than four games, due to an injured shoulder. His educated toe was missed during the latter part of the season and we hope that he will be on hand in 1917 to deliver his old time punts.

#### JOHNSTON, FULLBACK

"Johnny" was laid out for some time with a bad shoulder. He was probably the hardest tackler on the team and would tackle anything regardless of size.



#### LEONARD, GUARD

"Speed" did not get out until late in the season and did not have time to make his letter. He used his 190 pounds to good advantage and played a consistent game.

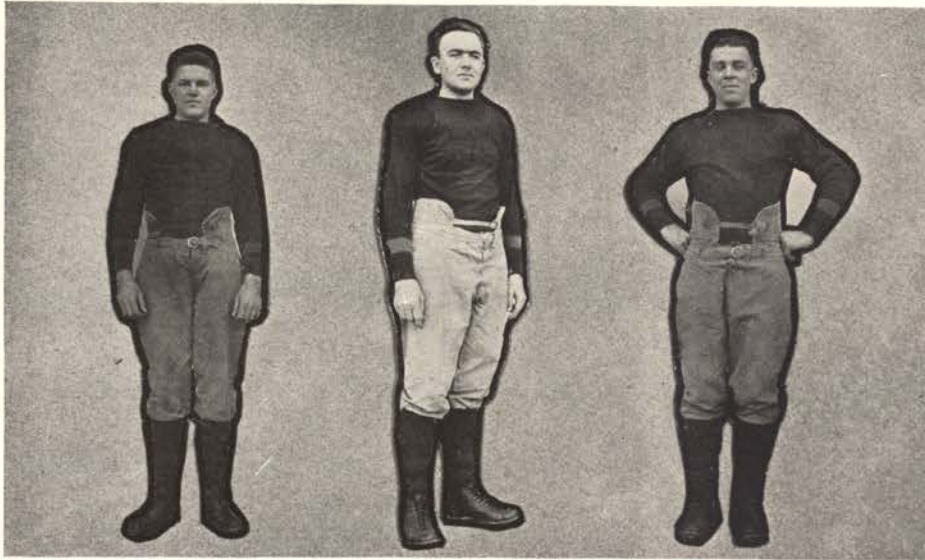
#### EAMES, QUARTERBACK

Fred comes to us from Washington University, where he received two years of football training. When called upon to guide the team he did so with good judgment and fast playing.

#### HAYES, GUARD

"Cornflakes" never saw a football before he came to Rolla, but the spectators never suspected it. He would have made his letter easily if he had not broken his hand early in the season.





#### DOWD, GUARD

"Becky" had trouble with his shoulder throughout the season. When able to play he always gave a good account of himself.

#### MANESS, GUARD

"Freshman" was the biggest man on the team and used his weight to good advantage. At first "Ory" was inclined to be too gentle, but as the season warmed up you could always find him on the bottom of the pile with his fingers itching for the ball.

#### BOHART, TACKLE

"Bo" did not get in until the Washington game, but he cinched his position at that time. Could be depended upon to open and close holes. His tackling was good.



#### CUNNINGHAM, FULLBACK

"Cunny" was our best line plunger and could always be counted upon to make a couple of yards when most needed. He also did the punting during the latter part of the season and never failed to get them off in good shape.

#### ZOLLER, END

"Curly" was in every game except the first. Was the first man down the field on punts and was "there" on breaking up interference.

#### WILLIAM E. OYLER

Through hard, consistent playing Oyler won a berth on the scrub team. He will prove a most valuable man for coming teams.

#### WHITE, HALFBACK

"Pete" started the season at end but found his niche at halfback. Could travel down the field and hit the line like a locomotive. He should again star in 1917.

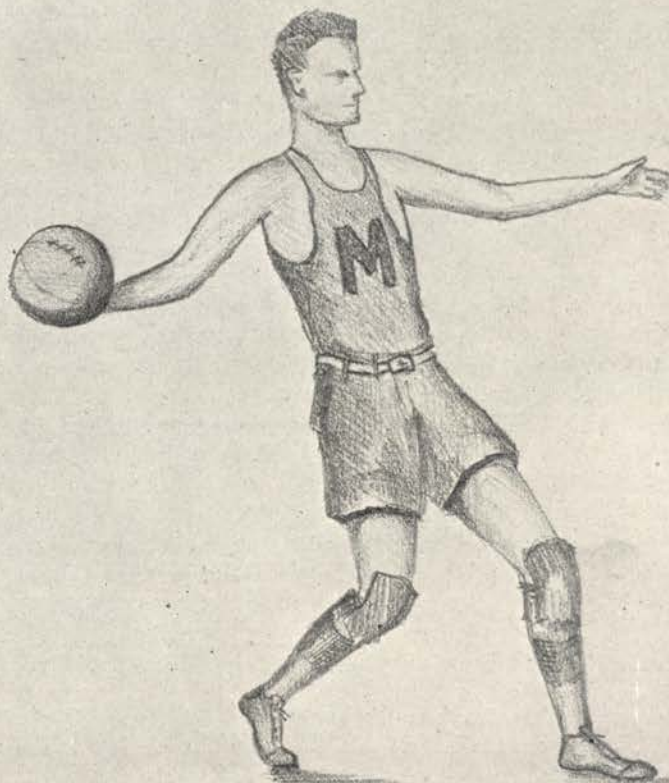








# BASKETBALL



## Basketball Season Review

It seems that the same old jinks that has been following our teams all year got in his good work on the basketball team. Practice was started early in December and the various class teams played for the championship before Christmas. The class championship was won by the Seniors after a hard fought series.

The work on the Varsity team started in earnest after the holidays and from the material at hand it seemed that the Miners must sweep everything before them. Of the old team we had Krause, Nevins, Scott, Kluge, and Peterson. To add to these were Dorris, Johnson, Wilson, White, Rice, Gettler and Haase. From these men it seemed that we surely must have a winning team. However, there is many a slip between cup and lip, as we may well know from the ensuing results.

The first game between Central Wesleyan and the Miners at Rolla was a clean cut, hard fought game, but the Miners were outclassed. When the final whistle blew, the score was 20 to 15 against the Miners.

On the first of February the Miners journeyed down to St. Louis and played a heart-breaking game with St. Louis University. All of the Miner team seemed to be enjoying a day off except Krause. The forwards were unable to toss a basket and most of the 15 points made by the Miners was due to the good work of Krause. Final score—St. Louis 30, Miners 18.

The next three games were lost in fast order. Central Wesleyan rolled up 26 points to the Miners' 15, Washington scored 33 points to the Miners' 9. The second game with Washington showed a much greater improvement in the Miner team than the score shows. Washington won this game by a score of 27 to 11.

The next game with St. Louis University, played at Rolla, did not result quite so disastrously for the Miners. The M. S. M. team had a lead until the last few minutes of play, when the boys from St. Louis ran away with things and won by a score of 16 to 15.

The next game played was not a scheduled game, but that did not detract from its interest. The Springfield Y. M. C. A. gave the best exhibition of basketball as it should be played that has been seen in Rolla for some time. After a good fast game the Y. M. C. A. won by a score of 21 to 36.

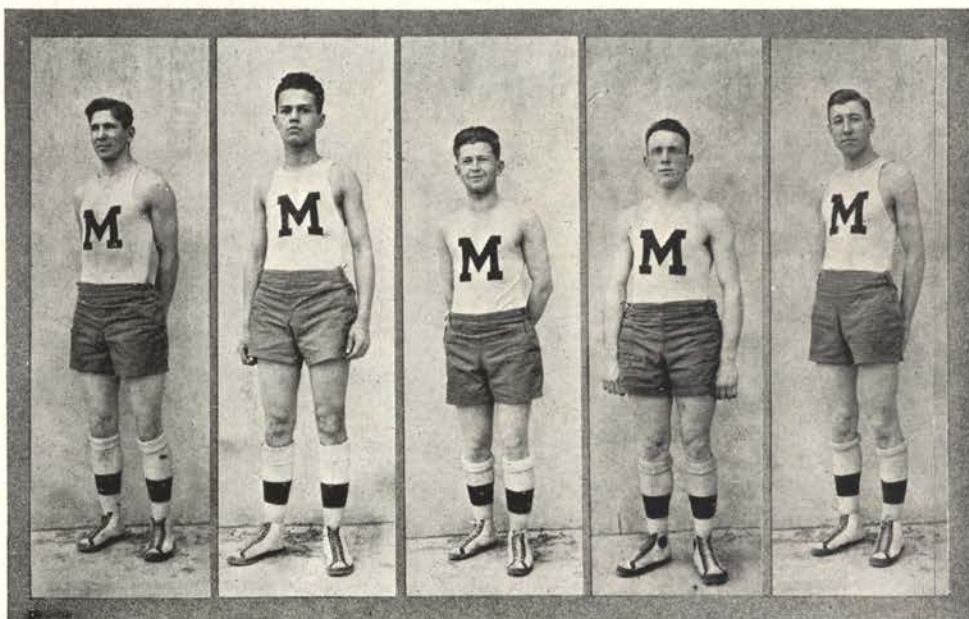
The next two games with Drury resulted in an even break. Drury won the first game 21 to 18. Rolla won the second game by the close score of 29 to 26. Both teams were in good shape and well matched.

When the Springfield Normals came to town, the Miners were defeated by the worst score during the entire year. Nothing could stop the Normalites and they ran over the Miners to the tune of 50 to 13.

On March 12 the Miners went to Springfield to play a series of three games. The first two were lost to Drury by scores of 32 to 16 and 35 to 26. The last game with Springfield Normal was lost by nearly as overwhelming a score as the first. This time the Normal scored 48 to the Miners' 23.

The 1917 team leaves a record of perseverance and pluck second to none. A record of games won or lost is as nothing compared to the above mentioned qualities and hence we do not feel that any explanations or apologies are necessary. While we hope that the team next year may be more successful in winning games, we will be satisfied if they show the same spirit.





J. R. NEVIN, CAPTAIN

Ole plays a bulldog game of basketball. He is in every mixup and once he has hold of the ball he never lets go. The opposing team can never feel safe when Ole is on the floor.

M. L. DORRIS

"Babe" came to us from Illinois with a good reputation and he has lived up to it. He is a real guard. He plays a slow, deliberate game, but gets there every time. With another year's experience he should make one of the best guards that M. S. M. has ever seen.

W. SCOTT

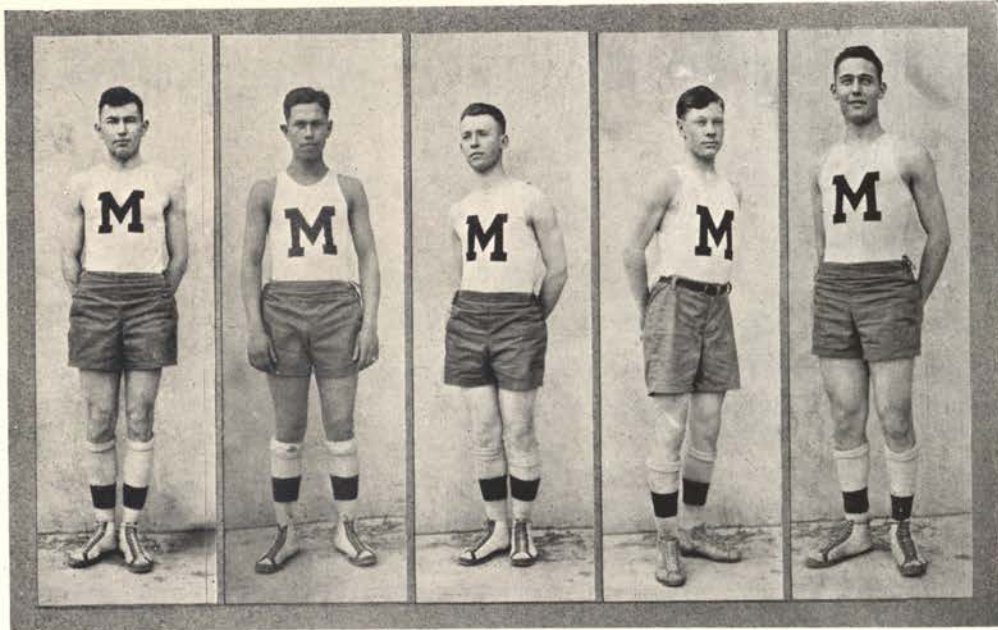
Although laboring under the double handicap of lack of size and weight, Scotty has more than made good. He covers his man in fine shape and is a very good shot.

I. B. JOHNSON

"I. B." has had years of experience and shows it in every way. He knows basketball from the ground up. Owing to an over supply of guards this year, Johnny has been unable to show what he really can do, but he has the goods just the same.

H. A. KLUGE

Harry plays a consistent game of basketball at all times and has the uncanny habit of throwing baskets from all angles. This is his last year in school and it will be hard to fill his position next year.



#### F. WHITE, CENTER AND FORWARD

White is a big man with speed, a rare combination. If White is left unguarded for a second he can be relied on to net the ball.

#### K. C. WILSON, GUARD

"Kid" has shown far more than usual ability as a guard. He is fast and a hard fighter from the word "go." He is lacking in experience, but that can be overcome in another season's work.

#### K. W. WRIGHT, FORWARD

Wright's strong point is his shooting ability. He makes the most difficult shots from impossible angles. His defensive work is excellent.

#### HAASE, FORWARD

Haase's lack of weight has prevented him from starring. His pluck and perseverance was exceptional. We hope to see him in the front rank next year.

#### F. A. KRAUSE, FORWARD

There is no need to say anything here about Krause as a basketball player. His work is so good that it is spectacular and he is not erratic. If we had an entire team to follow Krause we could trim the best of them.



# BASEBALL.



## Baskethall Review, 1916

In looking back over the past baseball year there is only one outstanding weakness, and that is in the pitching staff. Only two pitchers of the previous year reported for practice; they were Golick and Grotts. Some of the youngsters showed up well but were not able to stand the grill of a long, hard game. "Kid" Wilson did excellent work behind the bat. Of the fielders the most noticeable were Dawson, Raible and Dowd. Such old timers as Joe Wilson, Bill Kamp and Keily Miller were on the job every minute. Of the new pitchers, Zeuch, Leonard, Hill, Brandenburger and Benton showed the most promise.

Practice started about the 10th of April, with Coach Dennie to lead the team. From the first there was the problem of building up an efficient battery around a good in and outfield. Coach Dennie worked to that end until the first game with Concordia on April 21.

### CONCORDIA VS. MINERS

Score: Concordia 9, Miners, 3

Three pitchers were used by the Miners in this game—Golick, Brandenburger and Zeuch, with Wilson catching. Englebrecht pitched good ball for Concordia and was well supported by his team mates.

### OKLAHOMA AGGIES VS. MINERS—APRIL 24

Score: Aggies 10, Miners 0

The above was the score at the end of the third inning. The game was called off at that time because of rain. A very different score might have resulted had the game gone the full time, as the Miners had just started their rally.

### PITTSBURG MANUAL TRAINING SCHOOL VS. MINERS—APRIL 26

Score: Pittsburg 2, Miners 11

The Miners found their stride early and walked away with the game without any trouble. Golick pitched airtight ball and only one error was made by the Miners during the game. Fifteen hits were made by the Miners.

### PITTSBURG MANUAL TRAINING SCHOOL VS. MINERS—APRIL 27

Score: Pittsburg 3, Miners 7

Zeuch and Hill pitched this game and only allowed a few hits between them. Miners fielded exceptionally well.

### ARKANSAS UNIVERSITY VS. MINERS—APRIL 28-29

The two games played at Arkansas were disappointments to the Miners as they had every reason to expect two victories instead of two defeats. In both games the Miners played good ball up through the first six or seven innings. After that the Razorbacks had things all their own way.

### CONCORDIA VS. MINERS—MAY 14

Score: Concordia 5, Miners 1

This game was just a case of too much pitching on the part of Concordia. Their pitchers only allowed the Miners 4 hits throughout the game.

### ST. JAMES VS. MINERS—MAY 20

Score: St. James 6, Miners 19

This was not a regular schedule game but was one of the best that the Miners played in 1916. The Miners found the St. James pitcher early in the game and hit him easily.

Most of the pitchers developed in 1916 will be on the job in 1917 and we expect to have a pitching staff that will worry all comers.



## Baseball Scores

1916

|                                                    |                        |
|----------------------------------------------------|------------------------|
| April 15—Miners..... 2                             | Concordia..... 7       |
| April 25—Game called 4 innings on account of rain. |                        |
| April 26—Miners.....11                             | Pittsburg ..... 2      |
| April 27—Miners..... 7                             | Pittsburg ..... 5      |
| April 28—Miners..... 5                             | Univ. Arkansas ..... 9 |
| April 29—Miners..... 4                             | Univ. Arkansas .....13 |
| May 12—Miners..... 7                               | McKendree ..... 3      |
| May 13—Miners..... 1                               | Concordia..... 5       |
| May 18—Miners.....19                               | St. James ..... 6      |

### INTER-CLUB AND FRATERNITY BASEBALL LEAGUE

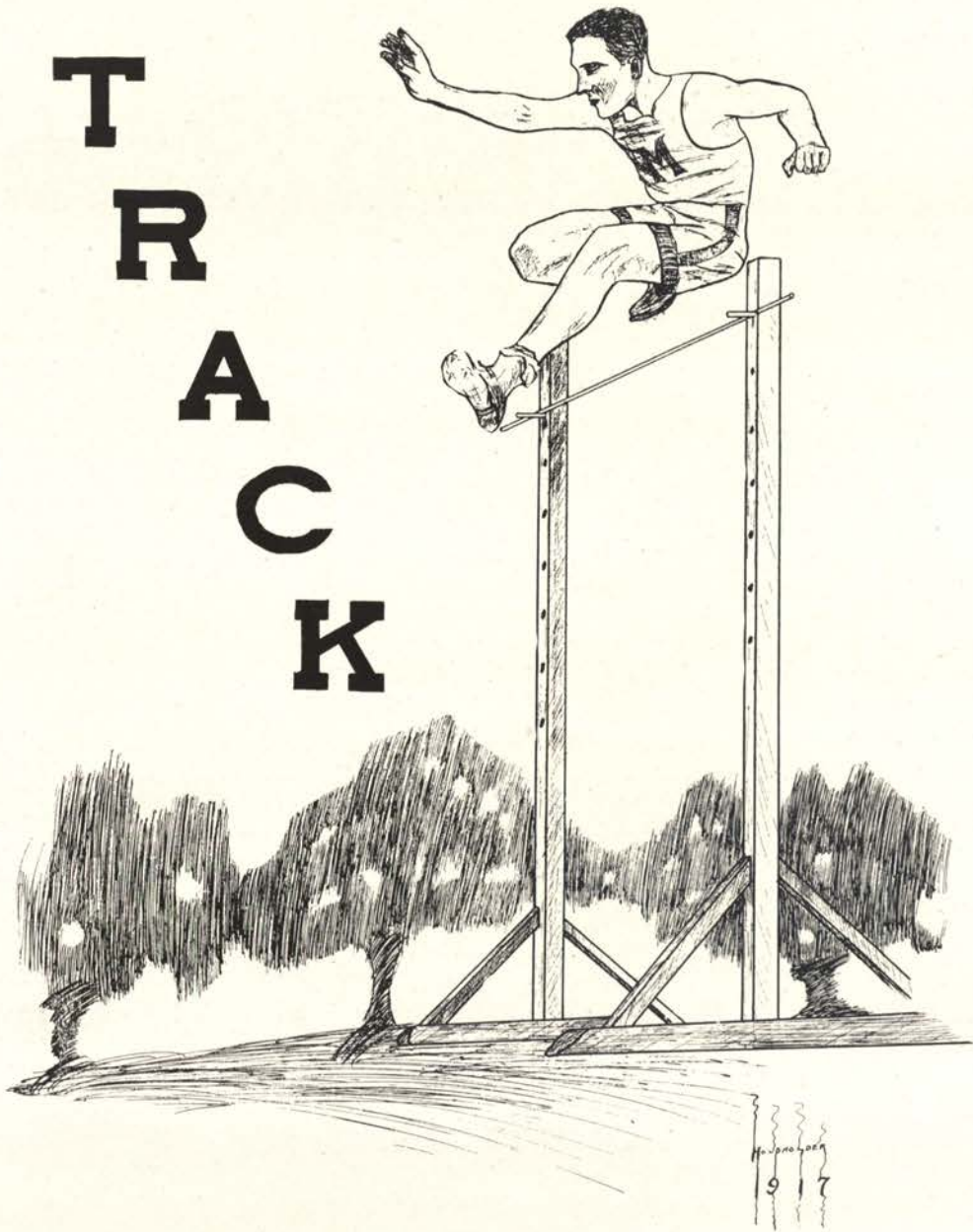
|                     |                       |
|---------------------|-----------------------|
| Kappa Sigma..... 4  | Independents ..... 2  |
| Corsairs .....17    | Engineers .....12     |
| Sigma Nu ..... 5    | Muckers ..... 0       |
| Kappa Alpha.....19  | Pi Kappa Alpha.....12 |
| Bonanza .....14     | Grubstakers ..... 2   |
| Prospectors ..... 7 | Beanery ..... 7       |
| Prospectors ..... 4 | Beanery ..... 7       |
| Corsairs ..... 8    | Kappa Sigma..... 7    |
| Sigma Nu .....17    | Beanery ..... 5       |
| Beanery .....13     | Bonanza ..... 7       |
| Sigma Nu .....12    | Kappa Alpha..... 5    |
| Sigma Nu .....10    | Corsairs ..... 0      |

The Sigma Nu Fraternity won the Allison cup which they will hold until the 1917 series determines the holder for the following year.





# T R A C K



## Track Review, 1916

In looking back to the track meets of 1916 we cannot see anything but success in every event. Both of the big meets were won by safe margins and we only hope that every succeeding year may be as successful.

The inter-class meet came first and was instrumental in bringing the new men to the front and showing the older men how they would have to hustle to hold their positions. The Freshmen won the meet easily with a lead of 7 above their nearest opponent. The features of the day were: Goodwin with the weights and the dashes, Aid in the low hurdles, and Peterson and Scruby in the jumping events. Peterson broke the school record in the high jump, setting the new mark at 5 feet 8 inches. Scruby equaled the old mark of 5 feet 7 inches.

The triangular meet at Springfield on May 7 between Drury, M. S. M., and Springfield Normal was a M. S. M. victory from start to finish. The Miners won this meet with a total score of 64, which was 28 points above their nearest opponent, Springfield Normal. The two mile race was the feature of the meet, with Murphy starring. Murphy also won the one mile race without any trouble. Peterson was the high point man of the day with a total of 13 points. He scored first in the high jump, broad jump and second in the shot put. As a summary M. S. M. won nine firsts, five seconds and four thirds.

The dual meet with Washington University on May 20 was won almost as easily. The Miners had things all their own way in the field events, winning 35 out of a possible 45. Too much cannot be said of the work of Joe Wilson, Jack Imlay, Peterson and Murphy. Scruby also surpassed his usual form and tied with Peterson for the pole vault and won the high jump. It was too bad that the Miners could not have won the final big event of the day, the half mile relay, but this was a small matter compared with the victories in the other events. The final score was: M. S. M. 69, Washington University 52.

### M. S. M. TRACK RECORDS

|                             |          |                      |      |
|-----------------------------|----------|----------------------|------|
| 100 Yard Dash.....          | :10      | F. Dover.....        | 1915 |
| 220 Yard Dash.....          | :22 2-5  | G. Cowman.....       | 1913 |
| 440 Yard Dash.....          | :48 2-5  | G. Cowman.....       | 1914 |
| 880 Yard Dash.....          | 2:04     | G. H. Boyer.....     | 1906 |
| 1 Mile Run.....             | 4:40     | G. H. Boyer.....     | 1906 |
| 120 Yard Hurdle.....        | :16      | M. S. Mazany.....    | 1909 |
| 220 Yard Hurdle.....        | :25 4-5  | M. S. Mazany.....    | 1909 |
| 161 Pound Shot.....         | 41'9"    | S. C. McComber.....  | 1908 |
| Discus .....                | 111'6"   | E. P. Barrett.....   | 1908 |
| High Jump .....             | 5'7"     | John Graves.....     | 1905 |
| Broad Jump .....            | 20'10"   | C. W. Traughber..... | 1909 |
| Pole Vault .....            | 11'      | S. C. McComber.....  | 1911 |
| Five Mile Cross Country.... | 30:40    | E. D. Lynton.....    | 1908 |
| Half-mile Relay .....       | 1:37 2-5 | .....                | 1913 |

### TRACK SCHEDULE, 1917

Drury, Springfield Normal and M. S. M. at Rolla.  
Washington University and M. S. M. at St. Louis.

### "M" MEN IN TRACK, 1916

Scruby, H. D.  
Murphy, E. N.  
Goodman, H.

Heman, F. (Capt.)  
Imlay, J.  
Peterson, C. E.

Wilson, J.  
Peterson, C. A.  
Brazill, M. P.





# SCHOOL OF MINES ATHLETIC RECORDS

|                              | Record            | Holder              | Year Made |
|------------------------------|-------------------|---------------------|-----------|
| 100 yard dash.....           | :10               | F. L. Dover.....    | 1915      |
| 100 yard dash.....           | :10               | J. L. Imlay.....    | 1916      |
| 220 yard dash.....           | :22 2-5           | G. Cowman.....      | 1914      |
| 440 yard dash.....           | :48 2-5           | G. Cowman.....      | 1914      |
| 880 yards.....               | 2:04              | G. H. Boyer.....    | 1906      |
| 1 mile run.....              | 4:40              | G. H. Boyer.....    | 1906      |
| 2 mile run.....              | 10:50             | I. R. Maher.....    | 1915      |
| 120 yard hurdles.....        | :16               | M. S. Mazany.....   | 1909      |
| 220 yard hurdles.....        | :25 4-5           | M. S. Mazany.....   | 1909      |
| 16 lb. shot.....             | 41 ft. 9 in.      | S. C. Macomber..... | 1908      |
| Discus.....                  | 111 ft. 6 in.     | E. P. Barrett.....  | 1908      |
| High jump.....               | 5 ft. 8 in.       | C. A. Peterson..... | 1916      |
| Broad jump.....              | 20 ft. 10 3-4 in. | C. A. Peterson..... | 1916      |
| Pole vault.....              | 11 ft.            | S. C. Macomber..... | 1911      |
| Five mile cross country..... | 30:40             | E. D. Lynton.....   | 1908      |

## SCHOOL OF MINES-DRURY-SPRINGFIELD NORMAL MEET

Springfield Normal Field, May 6, 1916

| Event           | First           | Second          | Third           | Record           | M. D. N. |
|-----------------|-----------------|-----------------|-----------------|------------------|----------|
| 100 yd.         | Imlay           | Garrett         | Grossenheider   | :10 2-5          | 5 4      |
| 220 yd.         | Imlay           | Goodman         | Grossenheider   | :23 2-5          | 8 1      |
| 440 yd.         | Heman           | Garrett         | Gill            | :54 1-5          | 6 3      |
| 880 yd.         | Bernard         | Heman           | Ferguson        | 2:18 2-5         | 3 1 5    |
| 1 mile          | Murphy          | Boyd            | Theodore        | 4:50 4-5         | 5 1 3    |
| 2 mile          | Murphy          | Boyd            | Farrar          | 11:33            | 5 4      |
| 120 hurdles     | Lusk            | Bernard         | Brazill         | :17 3-5          | 1 8      |
| 220 hurdles     | Garrett         | Bernard         | Brazill         | :27 4-5          | 1 5 3    |
| Half mile relay | Rolla           | Normal          | Drury           | 1:37 4-5         | 5 3      |
| 1 mile relay    | Normal          | Drury           |                 | 3:54             | 3 5      |
| High jump       | Peterson, C. A. | Scrubby         | Rainey          | 5 ft. 6 3-4 in.  | 8 1      |
| Discus          | Cox             | Ruffin          | Greer           | 106 ft. 11 in.   | 8 1      |
| Shot            | Thompson        | Peterson, C. A. | Cope            | 32 ft. 7 in.     | 3 6      |
| Pole vault      | Scrubby         | Bernard         | Peterson, C. E. | 10 ft. 4 in.     | 6 3      |
| Broad jump      | Peterson, C. A. | Aid             | Roberts         | 19 ft. 7 1-4 in. | 8 1      |

64 33 36

Rolla Half-Mile Relay Team: Goodman, Heman, Scrubby, Imlay

## SCHOOL OF MINES-WASHINGTON UNIVERSITY MEET

Jackling Field, May 20, 1916.

| Event       | First     | Second     | Third    | Record            | Wash-<br>Miners ington |
|-------------|-----------|------------|----------|-------------------|------------------------|
| 100 yd.     | Imlay     | Pemberton  | McSorley | :10               | 5 4                    |
| 220 yd.     | Imlay     | Pemberton  | Goodman  | :22               | 6 3                    |
| 440 yd.     | Pemberton | Heman      | Harvey   | :54 2-5           | 3 6                    |
| 880 yd.     | Brady     | Neuman     | Gill     | 2:09 2-5          | 1 8                    |
| 1 mile      | Murphy    | Leopold    | Neuman   | 4:52 3-5          | 5 4                    |
| Two mile    | Murphy    | Leopold    |          | 11:00 2-5         | 5 3                    |
| 120 hurdles | Stites    | Cammerer   | Scrubby  | :17 1-5           | 1 8                    |
| 220 hurdles | Brazill   | Aid        | Stites   | :27 2-5           | 8 1                    |
| High jump   | Scrubby   | Peterson   | Mitchell | 5 ft. 7 in.       | 8 1                    |
| Discus      | Wilson    | Bubb       | Hackman  | 100 ft. 2 in.     | 5 4                    |
| Shot        | Wilson    | Imlay      | Hackman  | 36 ft. 8 1-2 in.  | 8 1                    |
| Broad jump  | Imlay     | McSorley   | Peterson | 20 ft. 10 1-2 in. | 6 3                    |
| Pole vault  | Peterson  |            | Mitchell | 10 ft. 6 in.      | 8 1                    |
| Relay       | Scrubby   | Washington | Miners   | 1:31 2-5          | 5                      |

69 52

Rolla Relay Team: Goodman, Heman, Aid, Imlay.











# Rollamo Board

1917

*J. R. Walsh*  
Editor-in-Chief

*Harry Ambler*  
Business Manager

*E. Ross Housholder*  
Art Editor

*Harry A. Kluge*  
Asst. Business Manager

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Student Treasurer

*N. W. Doennecke*  
Associate Editor

*John S. Brown*  
Secretary





112









With the return of four of the 1916 staff last September and new reinforcements, the Miner took up the work so well performed by the last year's men and began immediately to win subscribers and make a peppy weekly.

Much of the credit for getting the Miner out on time, revealing scoops, and keeping the paper in the limelight of popularity, is due to Editor G. E. Ebmeyer, who dipped his pen in sport comment as well, and was largely responsible for the successful Inter-Club-Frat baseball games. Not only was the Miner out on time but several extras came out as well.

Through the editorial column, the Associate Editor, J. K. Walsh, alternately amused and enraged the Faculty and occasionally pushed the critical pen into offenders of the school's customs and traditions. As a result of the articles entitled "What's Wrong with M. S. M.?" a real Student Council was established at M. S. M. The Ode to President Wilson received the personal appreciation of the President himself, and the famous Straw Vote aroused keen enthusiasm.

When it came to handling the business management of the Miner, Mr. M. L. Terry stepped close upon the heels of his predecessor and sometimes overtook him. The Miner was run on a strictly business basis and the books never showed unnecessary red ink. When it is considered that it is impossible to make a successful publication without funds, Business Manager Terry, ably assisted by the Assistant Manager, H. W. Doennecke, is largely responsible.

Messrs. Crow and Scott have kept up the pace demanded and have secured "ads" from everywhere, including Newburg and St. James.

A very difficult column to fill, but one that proved interesting, was under the management of Local Editor Geib, who also covered the 400 society news.

Never before has the circulation of the Miner received the attention which was given to it by Circulation Manager Reber, assisted by Osher Goldsmith and sub-assistants ad infinitum.

Mr. Clem Hippard was with the Miner for a short time and while on the staff did good work.

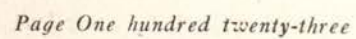
Mr. G. D. Clayton vindicated the presence of a Freshman on the staff by working up a very entertaining Exchange Department.

Too much credit cannot be given to the class reporters, who have for the most part put forth real efforts to represent their respective classes. For the first time, the Senior class has been truly written up, and the credit for this, together with the snappy mass meeting write-ups, is due to Mr. T. P. F. Walsh.

The Miner appreciates the sincere co-operation which Dr. McRae has always manifested, and the interesting and instructive articles by Professors Barley, Dean, Forbes, Dickerson and Clayton, and Mr. Wheeler of the Library.

A resume of the personal efforts of the men who made the Miner last year also shows the successful year just terminated. Next year the Miner will continue to progress and truly represent the student opinion and activities of M. S. M. It has proved a reason for its existence.





## Student Council '17

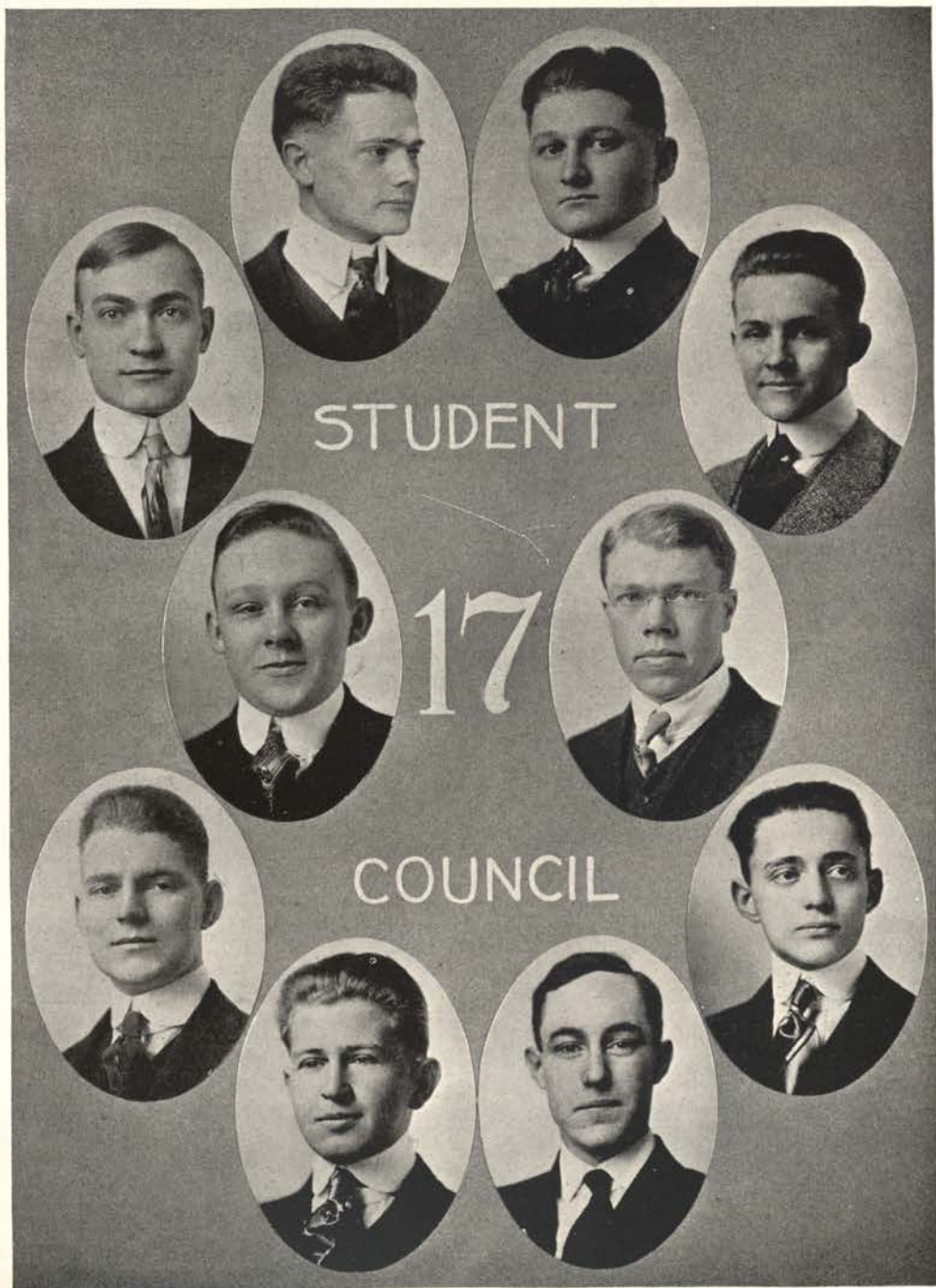
### OFFICERS

J. K. WALSH..... *President*  
C. W. HIPPARD..... *Secretary*  
R. O. SHRIVER..... *Committee Chairman*

### MEMBERS

|              |              |
|--------------|--------------|
| J. S. Brown  | J. H. Klyman |
| M. Shanfeld  | W. H. Reber  |
| W. Scott     | P. D. Kern   |
| C. C. Wilson |              |





## **The Missouri Mining Association**

MARTIN F. BOWLES.....*President*  
RAY O. SHRIVER.....*Vice-President*  
HAROLD T. HERIVEL.....*Secretary*  
ROBERT P. LYONS.....*Treasurer*

The Missouri Mining Association was established in 1910. The objects of the Association are: First, to advance the knowledge of mining among its members; second, to promote good-fellowship among the students and alumni of the Missouri School of Mines; and third, to bring the Missouri School of Mines in closer touch with the mining profession at large.

The Association has a membership of about forty-five. The Association is affiliated with the American Institute of Mining Engineers and many of our members have availed themselves of the opportunity of becoming Junior members of the Institute.

Any student of the Missouri School of Mines who has eighty-five hours' credit is eligible to active membership.

Owing to the unusual activity in the mining and metallurgical industries, speakers have been hard to obtain. So far, we have had two good talks, one by "Chief" Buehler on "The Southwestern Trip of the American Institute of Mining Engineers," and the other, "The Influence of Ball Mills on the Mining Practice in Southeast Missouri," by L. A. Delano, '09. We have a couple more good talks lined up for some future date.





## Missouri Metallurgical Society

### OFFICERS

H. A. HORNER.....*Vice-President*

T. P. F. WALSH.....*President*

C. L. EPPERSON.....*Secretary-Treasurer*

PROF. H. T. MANN.....*Member Executive Committee*

PROF. C. Y. CLAYTON.....*Member Executive Committee*

The Met. Society is a real "live" organization and has fully demonstrated its right to be listed as one of the centers of school activities. Under capable and efficient officers and an admirable system of lectures, the Society has, this year, fully accomplished its object—to forward the growth of metallurgical knowledge and to inculcate in its members an ambition to do their best in their chosen profession, metallurgy.

The following talks have been delivered during the year:

"The Varying Results Entering Into the Determination of Lead by the Molybdate Method," by H. S. Clark;

"An Historical Outline of the Molybdate Method for Lead," by H. T. Mann;

"Analysis of Complex South American Cassiterite Ores," by T. F. Golick;

"Lead Smelting at Omaha," by H. A. Horner;

"The Possibility of the Electrolytic Deposition of Zinc from Aqueous Solutions of Complex Missouri Ores," by F. D. James.





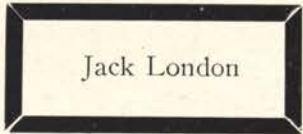
## Quo Vadis

Motto: "Please Mum."

Flower: Dog Fennel.

Colors: Black and Blue.

### HONORARY BO



Jack London

### BOES IN FACULTY

"Joe" Cole

"Boots" Clayton

### BOES IN JOINT

"Wild Cat" Imlay

"Bo" Arnold

"Bullet" Bruce

"Doc" Raible

"Mick" Brazill

"Eb" Ebmeyer

"Pat" Reilly

"Bob" Lyons

"Kaiser" Kluge

"Whiskers" Elfred

"Doc" Stoner

"Von Hindenburg" Eulich

"Pat" Murphy

"Phil" Bohart

### BUMS EN ROUTE

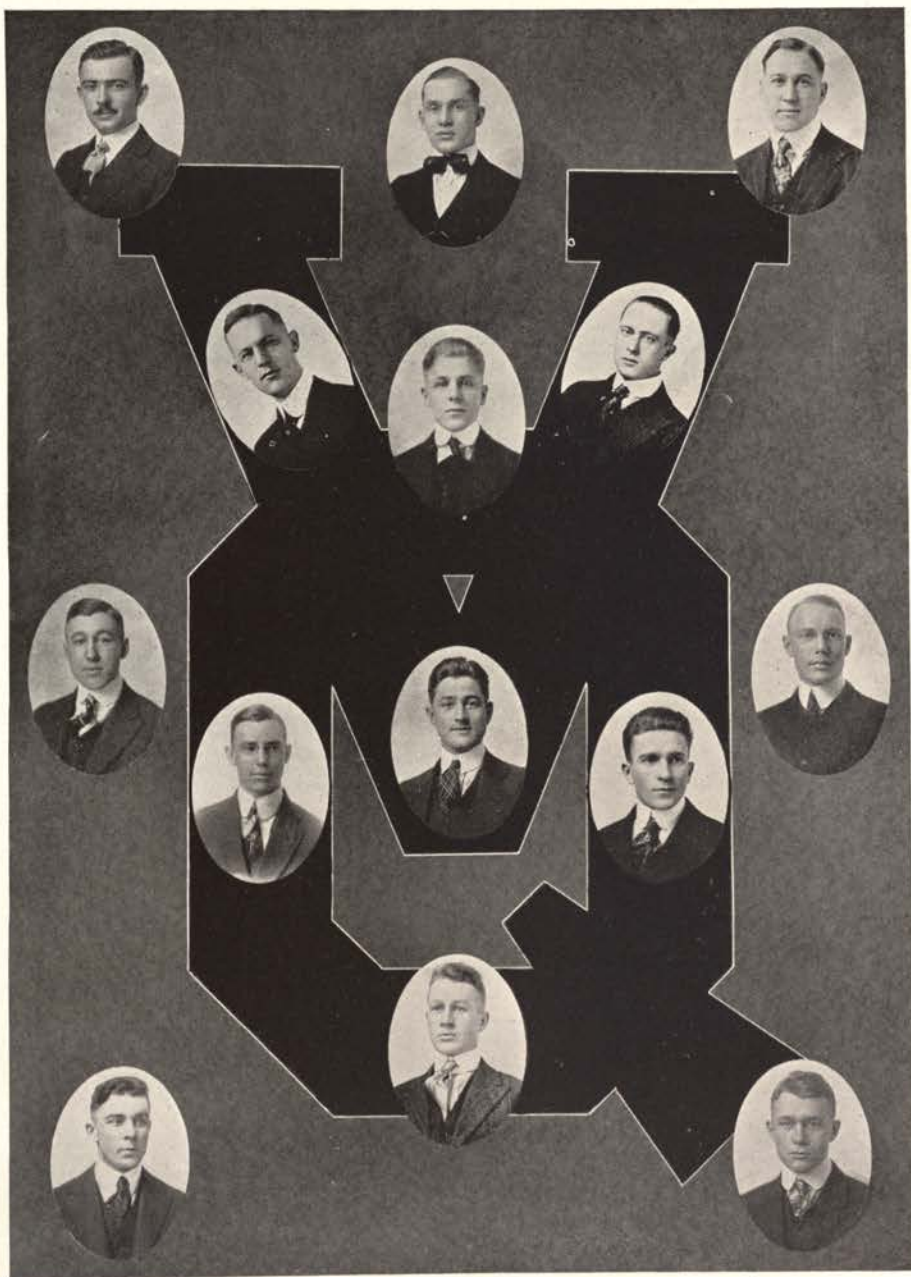
"D. T." Turnbull

### COMIN' BUMS

"Kid" Wilson

"Gabe" Harris







J.C. Rible, Jr.



J.M. Morris



F.H. Geib



J.T. Shipley

## PIPE AND BOWL



P.D. Wilkinson



W.C. Powell



S.S. Leonard



J.W. Pugh



F.L. Eames

### Object:

To promote good fellowship among the students, and to further the interests of the School.



# Satyrs

## HONORARY SOPHOMORE ORGANIZATION

Organized October, 1913.



### ACTIVE MEMBERS

W. Scott  
R. Bruce  
A. H. Bates

F. A. Krause  
F. V. Moore  
H. D. Scruby

N. B. Larsh  
P. D. Wilkinson  
M. McCarthy

### IN THE SCHOOL

J. W. Pugh  
E. Murphy  
T. L. Dawson  
O. E. Stoner  
H. W. Doennecke  
J. G. Reilly



W. H. Reber  
H. A. Kluge

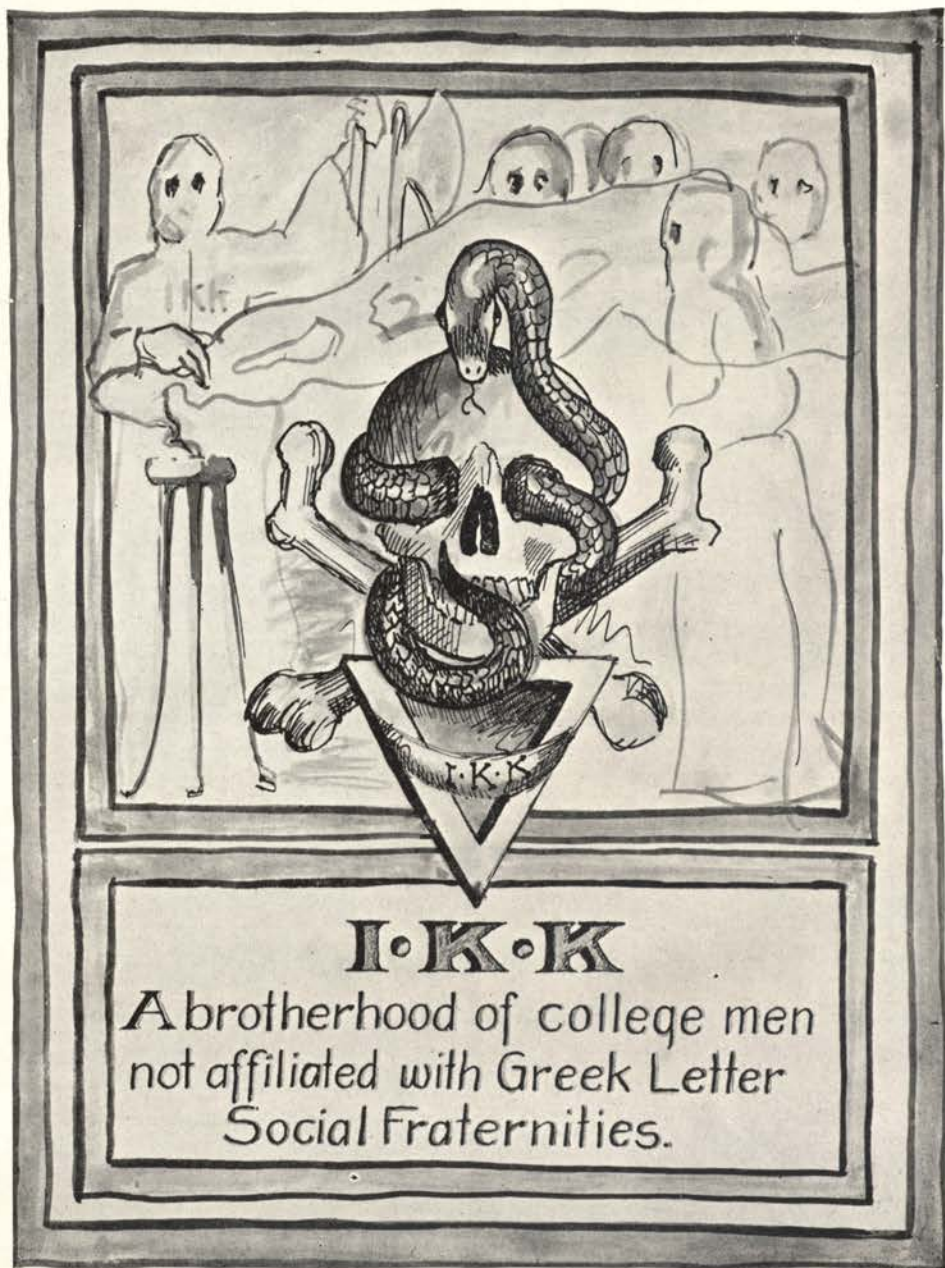
T. F. Golick  
H. S. Clark  
F. H. Geib  
L. C. Skeen  
J. C. Raible  
J. L. Imlay



Gerard E. Ebmeyer  
 Walter H. Freudenberg  
 George L. Triefenbach  
 James H. Bock  
 Harold T. Herivel

William Kahlbaum  
 Harry A. Kluge  
 Speed S. Leonard  
 John K. Walsh  
 Francis H. Geib





**I.K.K.**

A brotherhood of college men  
not affiliated with Greek Letter  
Social Fraternities.

## Trowel Club

(MASONIC)

### HONORARY

H. A. Buehler  
B. F. Culbertson  
M. F. Faulkner

W. J. Kilgore  
E. J. Koch  
J. W. Scott

J. M. Southgate  
C. L. Woods

### FACULTY

J. H. Bowen  
C. L. Dake  
H. S. Dickerson  
C. R. Forbes

L. E. Garrett  
L. D. Hammond  
E. G. Harris  
J. C. Ingram  
H. T. Mann

E. S. McCandliss  
A. L. McRae  
W. H. Risher  
M. H. Thornberry

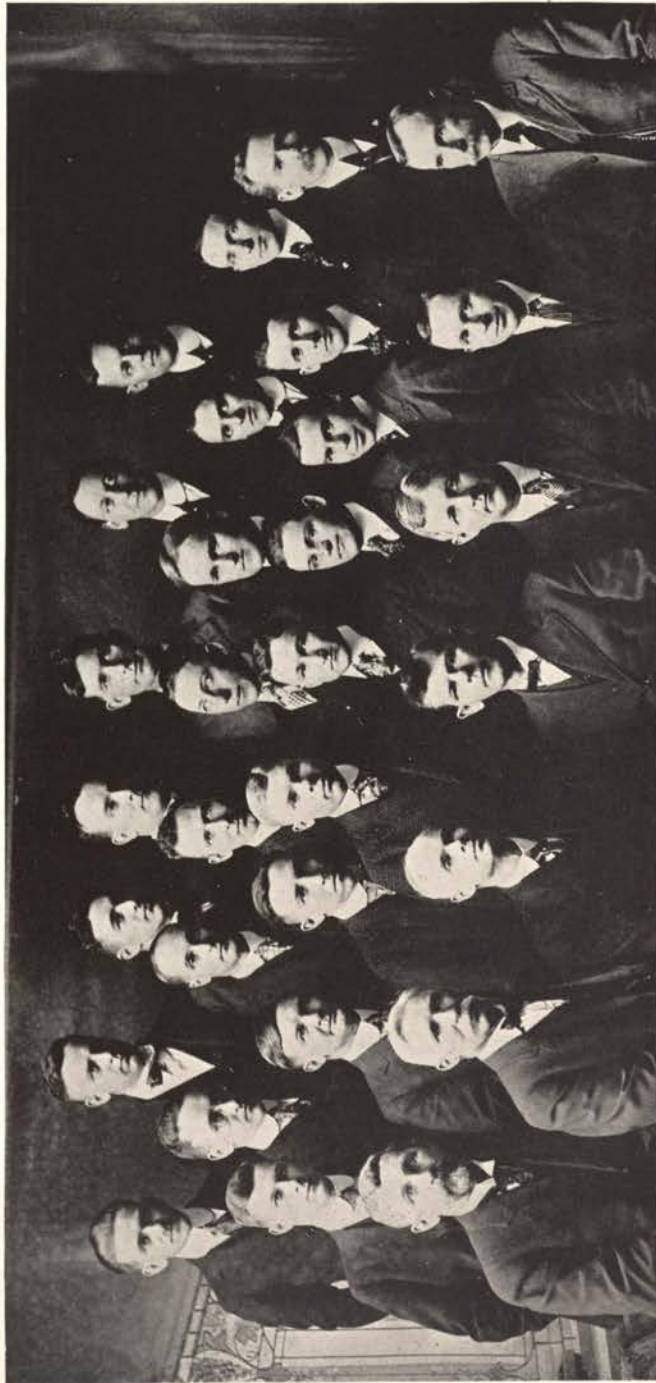
### ACTIVE

A. H. Bates  
M. F. Bowles  
R. C. Boyer  
H. C. Cox  
R. R. Dickerson  
H. W. Doennecke  
G. E. Ebmeyer  
W. H. Freudenberg

A. C. Gale  
L. S. Harlowe  
H. T. Heimberger  
R. C. Henschel  
H. T. Herivel  
B. W. Humphrey  
H. W. Hurst  
F. D. James

I. B. Johnston  
F. H. Lane  
S. S. Leonard  
E. A. Miller  
L. R. Oakleaf  
A. D. Potts  
W. C. Zeuch  
Jos. Nevin









# FRATERNITIES

SOCIALS



HONORARY



PROFESSIONAL



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# Sigma Nu

Gamma Xi Chapter

Established January 23, 1903

FRATER IN URBE

John McKnight Southgate

FRATER IN FACULTATE

Joseph Wayne Barley

FRATRES IN UNIVERSITATE

## SENIORS

Harry Atwood Ambler  
Thomas Ralph Crawford  
Floyd Dixie James

William Henry Kamp  
Speed Stephens Leonard  
William Clark Powell

## JUNIORS

Tony Frank Golick  
John Logan Imlay

John Munson Morris

## SOPHOMORES

Arle Haywood Bates  
Carl Andrew Gettler  
Henry George Kamp

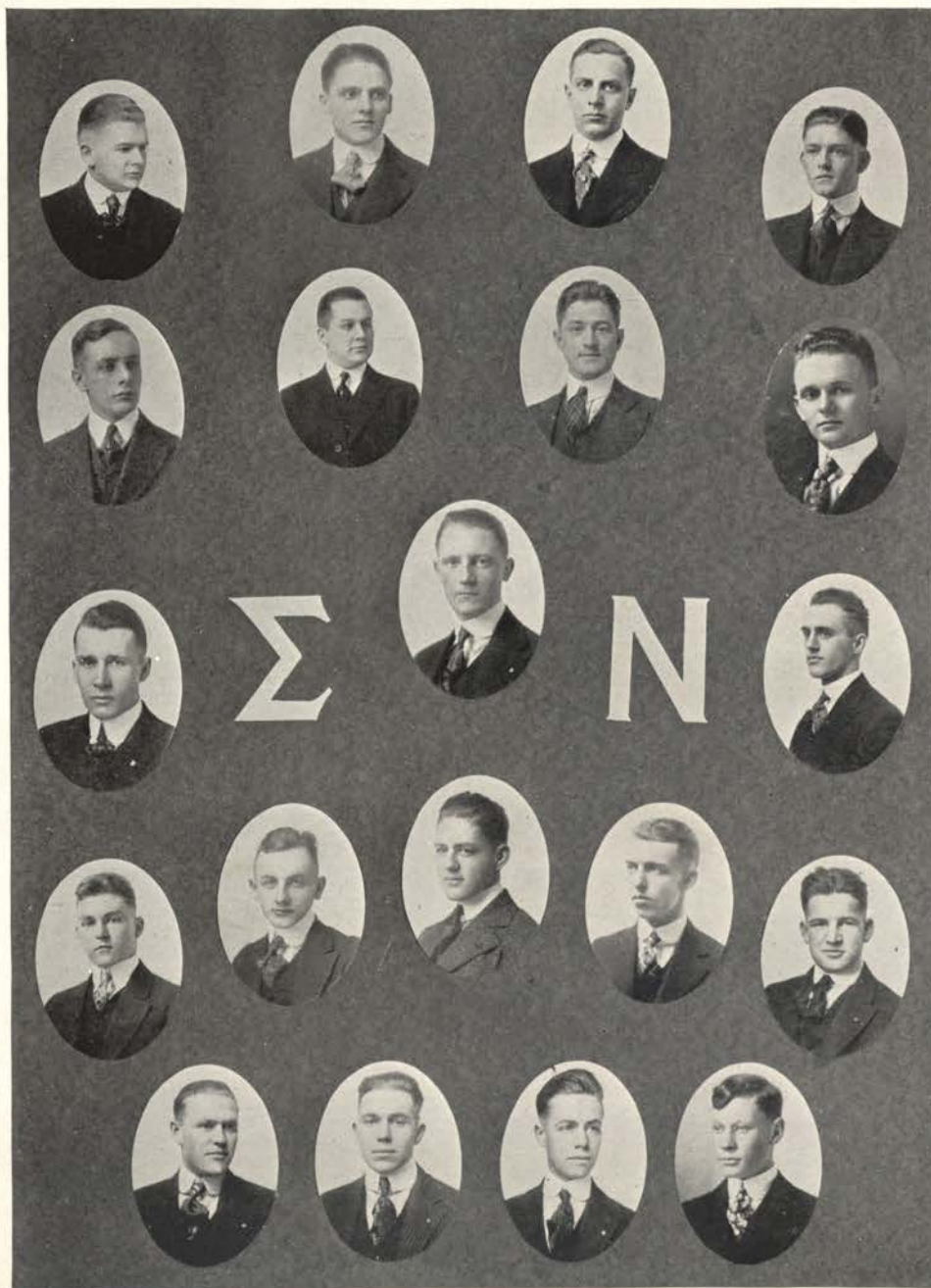
Frederick Vail Moore  
Thomas Carson Morris  
Luzerne Maurice Tidd

## FRESHMEN

Arthur Lee Cairns  
Walter Stracke Haase  
Horace Catlett Hume

Wendell William Richmond  
Robert Newton Stubbs, Jr.





## Kappa Alpha

Beta Alpha Chapter  
(Installed April 27, 1903)

FRATER IN URBE

Charles L. Woods

FRATER IN FACULTATE

Charles Yancey Clayton

FRATRES IN UNIVERSITATE

### SENIORS

John Gay Henderson Reilly

Carl Alden Peterson

James Henry Bock, Jr.

Clarence Elmer Muehlberg

### JUNIORS

Richard Wesley Mellow

George Burnet

### SOPHOMORES

Wayman Crow

Sidney Lorenzo Anderson

Matthew Patrick Brazill, Jr.

Raymond John Dowd

Philip Harris Bohart

Louis Brent Benton

### FRESHMEN

George Dillard Clayton

George Barnett Bloom

Charles Russell Barnard





# Kappa Sigma

Beta Chi Chapter  
(Installed December 19, 1903)

## FRATRES IN UNIVERSITATE

### SENIORS

Martin F. Bowles  
John J. Shipley

Joseph C. Raible, Jr.

### JUNIORS

Daniel C. Beyer  
Thos. L. Dawson  
Jerome E. Flanders

Harold T. Herivel  
William H. Reber  
Lawrence J. Zoller

### SOPHOMORES

Harry Aid  
Horace D. Scruby, Jr.

Harold F. Shore  
Paul D. Wilkinson

### FRESHMEN

Welborn Ball Crutcher  
Harold Kline Ewing  
George Howard Fox  
William Weaver Keeler  
Marion Robert Mann

Ralph Rudolphus Riddlesperger  
Leon Burr Schumacher  
Simeon Norwood Sprigg  
Frederick Pope White  
Kenneth Maurice Wright





## **Πi Kappa Alpha**

### FRATERS IN FACULTATE

Horace Tharp Mann

Neil Charles Hutsinpillar

### FRATRES IN UNIVERSITATE

#### JUNIORS

Mark Loren Terry  
James Willard Pugh

Harry Gilbert Corby  
John Ray Fiedler

Victor Hugo Doeling  
Howell Smith Clark

#### SOPHOMORES

Percy Grant Forman  
Napoleon Bonaparte Larsh  
Carl William Scothorn

James Pressley Gill  
Thomas Witt Leach  
James Crane Hill

Anvil Clark Williams  
Robert Marston

#### FRESHMEN

Noah Purcell Johnson  
Virgil Lee Whitworth

Harold Leland Bailey  
Carl Bernard Hummel

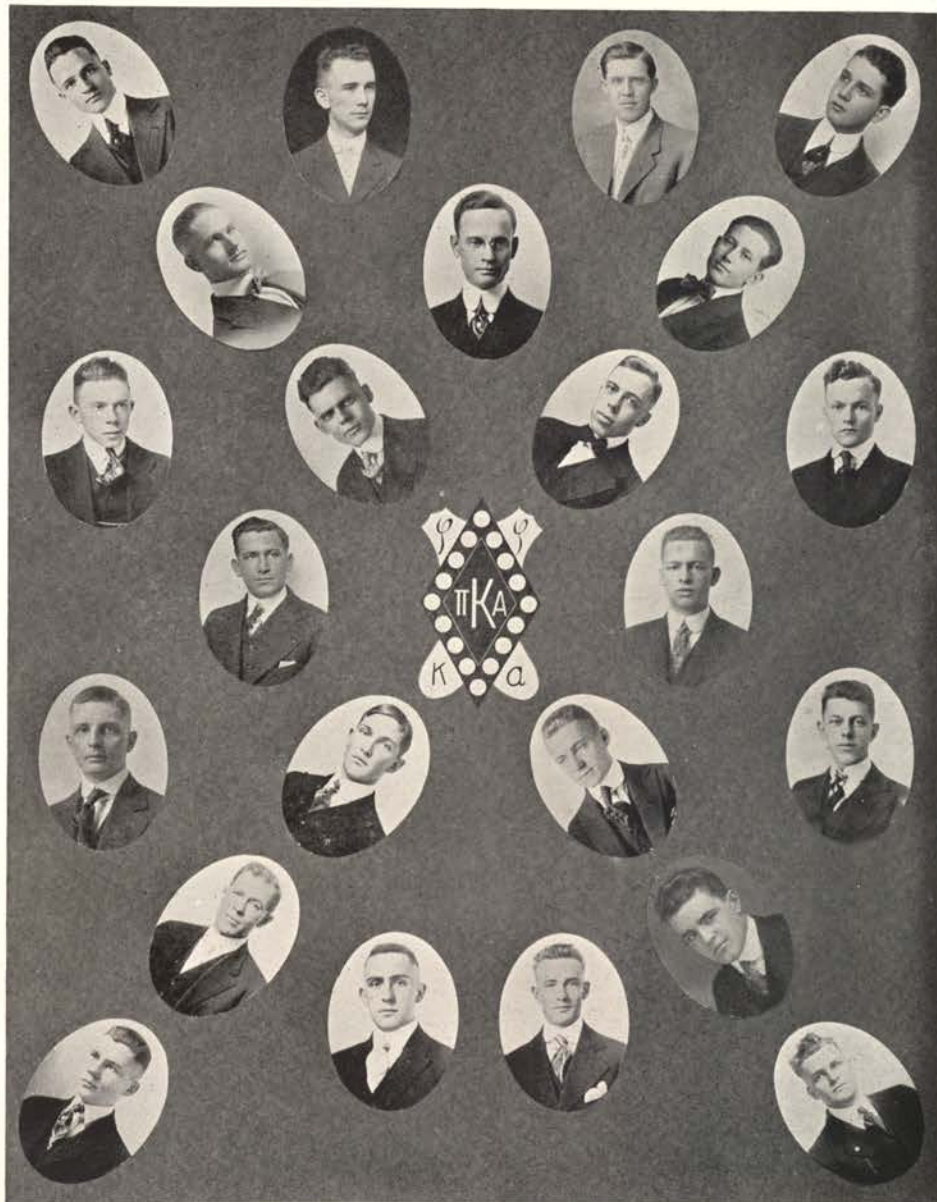
Walter Jay Mann

#### PLEDGES

Charles Francis Halligan

Bernard Eli Hammer





## Tau Beta Pi

Beta of Missouri  
(Installed December, 1906)

### HONORARY

Charles J. Adami  
\*E. R. Buckley  
H. A. Buehler  
D. Copeland  
G. H. Cox

W. Rowland Cox  
L. S. Griswold  
\*J. A. Holmes  
Geo. E. Ladd  
A. L. McRae  
Philip N. Moore

Robert H. Richards  
L. A. Test  
R. C. Thompson  
\*C. M. Woodard  
L. E. Young

### FACULTY

Charles Y. Clayton  
Geo. R. Dean  
R. E. Duffy

C. R. Forbes  
L. E. Garrett  
V. H. Gottschalk

J. C. Ingram  
H. T. Mann

### 1917

H. A. Ambler  
J. H. Bock, Jr.

J. S. Brown  
C. W. Hippard  
F. D. James

J. J. Shipley  
R. O. Shriver

### 1918

H. W. Doennecke

M. L. Terry

J. W. Pugh

---

\*Deceased.





## Theta Tau

Iota Chapter  
(Installed December 30, 1915)

### CHARTER MEMBER

Francis H. Geib

### AFFILIATE FROM DELTA

E. Ross Housholder

### SENIORS

John G. Reilly  
Martin F. Bowles

Joseph C. Barton  
Harry A. Ambler  
Ray Otto Shriver

Earl Joseph Weimer  
Howard A. Horner

### JUNIORS

E. Ross Housholder  
Francis H. Geib  
Harold T. Herivel

Paul Dean Kern  
Oscar E. Stoner  
Daniel C. Beyer

Tony Frank Golick  
Lorain H. Cunningham

### SOPHOMORES

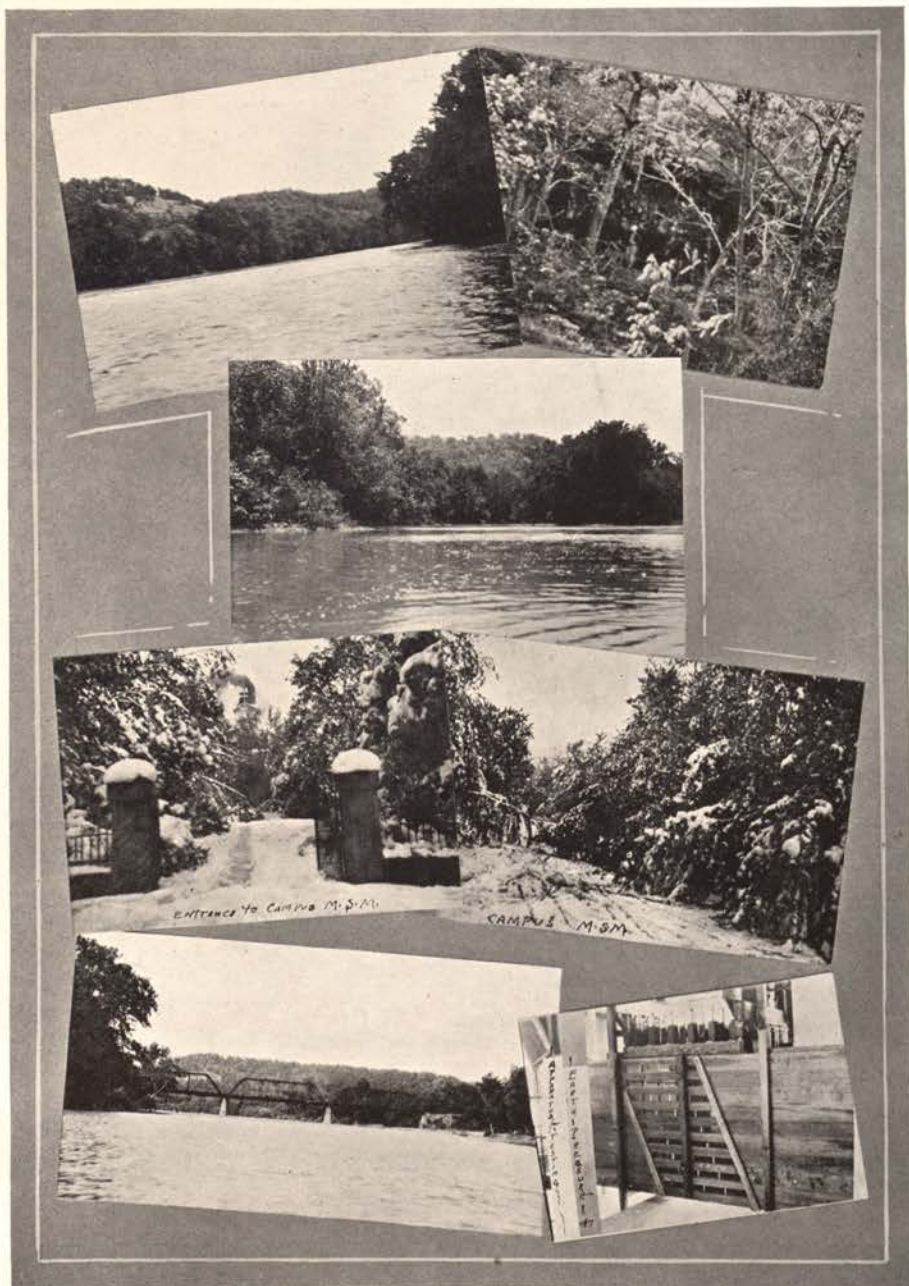
Hanley Weiser

James P. Gill

Allen D. Potts











## Grubstaker

### IN FACULTY

Joseph B. Cole

### SENIORS

Walter H. Freudenberg  
William Kahlbaum

H. A. Lask  
E. A. Miller

George L. Triefenbach  
Earl Joseph Weimer

### JUNIORS

Lorain H. Cunningham  
John R. Crenshaw

Oscar Gotsch, Jr.  
Felipe B. Ore

Walter C. Zeuch

### SOPHOMORES

John C. Burgesen  
William Douglas Gray

William E. Oyler  
Allen D. Potts

Stanley S. Sour  
Kenneth C. Wilson

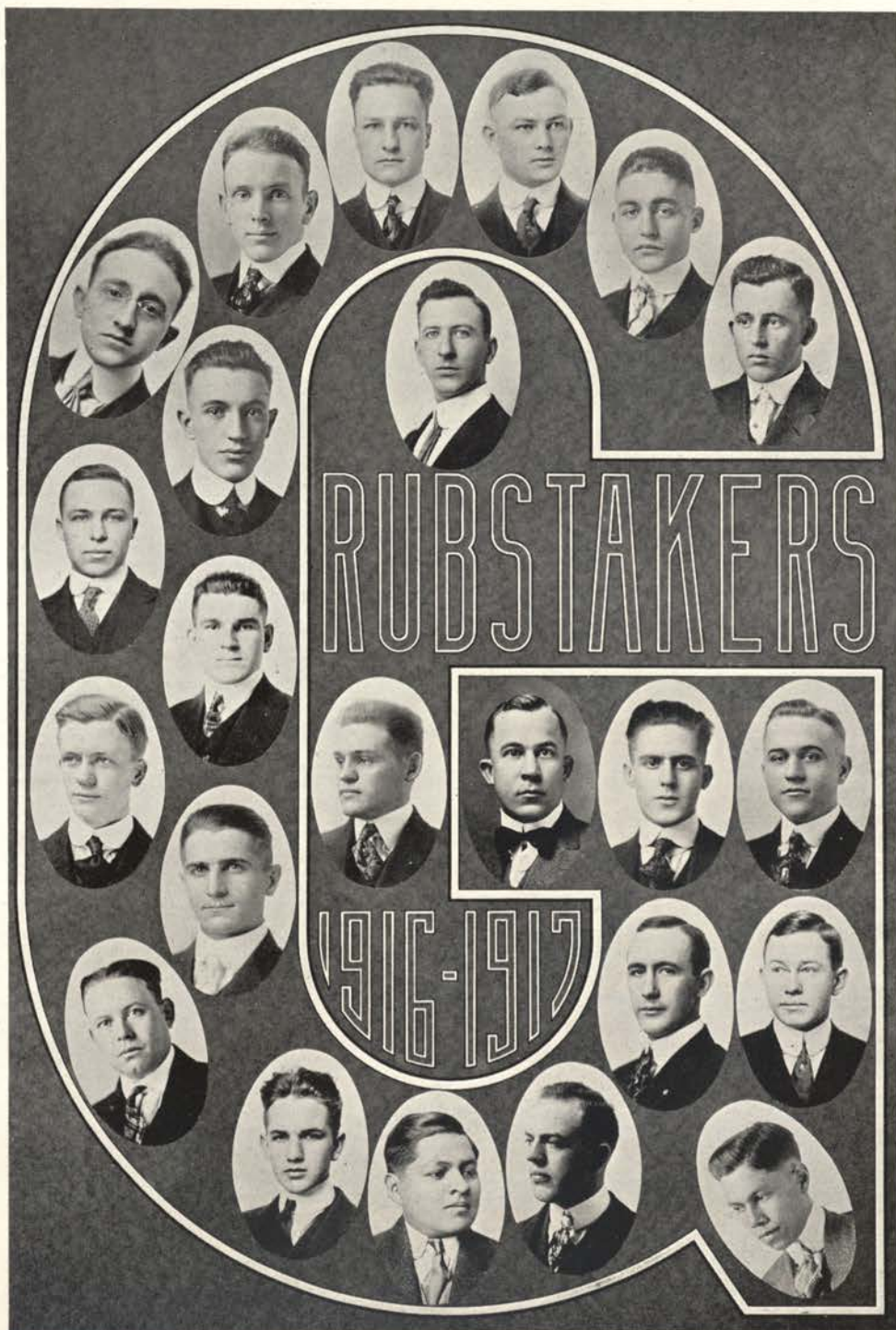
### FRESHMEN

Harland H. Hoppock  
Irvin B. Johnston

Richard L. Johnson  
Karl K. Kershner

Robert K. Stroup  
Fred W. Uthoff





## **Muckers**

### SENIORS

Ralph Dale  
Richard Dwyer Cooper  
Clemence William Hippard  
Howard Andrew Horner

Harry Albert Kluge  
Robert Paul Lyons  
Leroy Robert Scheurer

### JUNIORS

James Taaffe Fleming  
Wesley George Hippard  
Paul Dean Kern

Earle Nelson Murphy  
Leslie Carlisle Skeen  
Robert James Smart

### SOPHOMORES

Robert Bruce, Jr.  
Charles Lester Dorris  
Artileus V. Eulich  
Harold Shelton Harris

Meryl McCarthy  
Galen Miller  
Donald Porter Pray  
Lawrence William Stokes

### FRESHMEN

Milburn Leo Dorris

Carl Frederick Jungk

Roscoe Nelvin Place

### THE LAMBDA CHI ALPHA FRATERNITY

announces the chartering of the

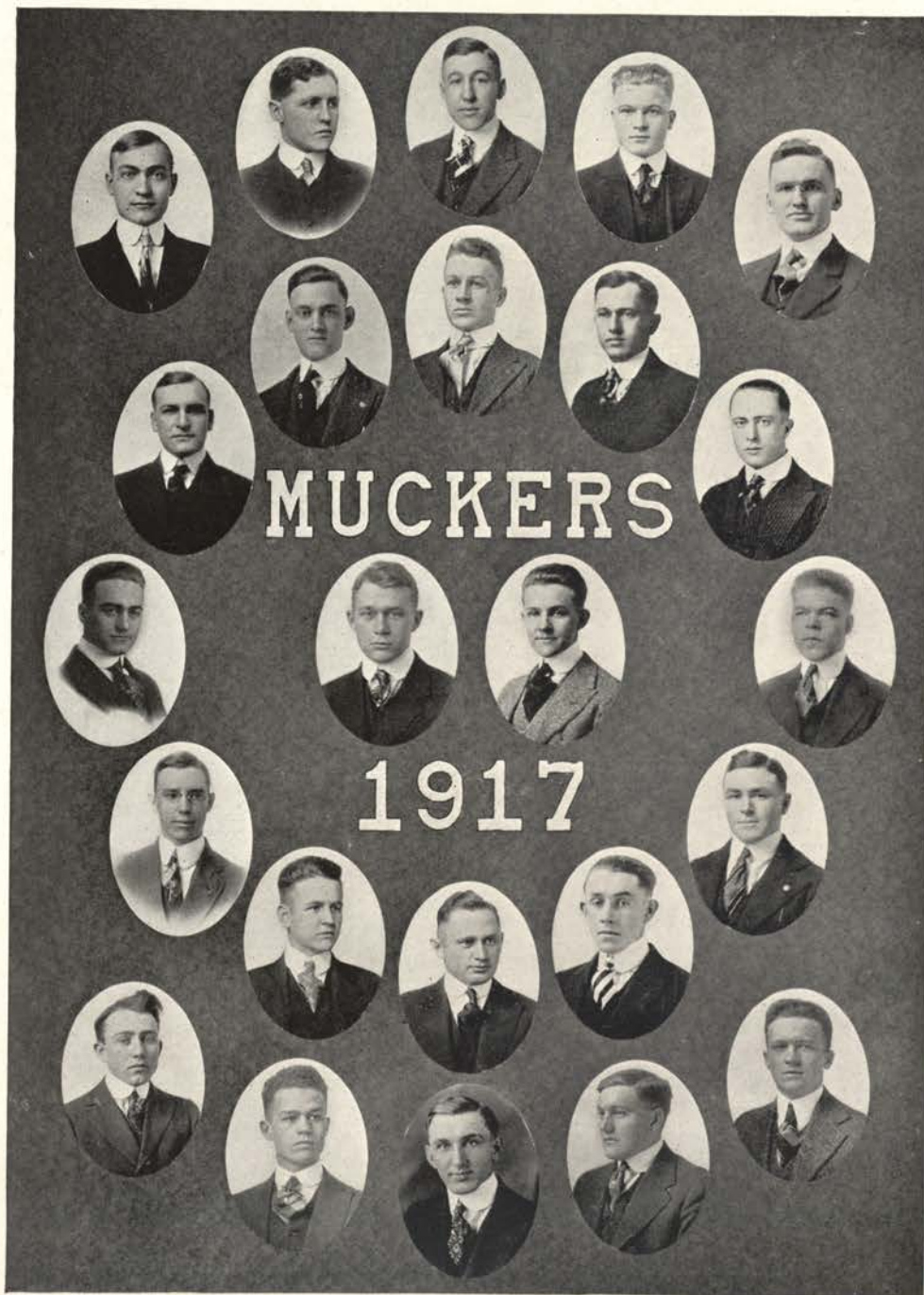
MUCKER'S CLUB

as the

ALPHA DELTA ZETA CHAPTER

April 30, 1917





## Prospectors

### SENIORS

J. K. (Jake) Walsh, President

G. E. (Eb) Ebmeyer, Bus. Mgr.

T. P. F. (Tee Pee) Walsh, Sec.-Treas.

R. O. (Duke) Shriver

### JUNIORS

R. V. (Boy) Boyer

M. (Shan) Shanfeld

R. (Raool) Chavez

A. C. (Sark) Starkey

J. B. (Dugi) Duga

R. E. (Vellie) Velasco

J. (Gaff) Gaffney

### SOPHOMORES

E. E. (Ash) Ashlock

O. (Goldie) Goldsmith

W. F. (Bake) Baker

B. (Nick) Nichols

F. (Deck) Deckmeyer

L. R. (Oak) Oakleaf

E. A. (Earl) Lynn

J. B. (Joe) Fast

### FRESHMEN

W. T. (Busten) Carson

J. R. (Eva) Evans

L. E. (Davy) Davidson

H. W. (Oscar) Hurst

W. H. (Dunny) Dunlop





## **Corsairs Club**

### ASSOCIATE MEMBERS

Joseph C. Barton '17

Frederick A. Pope '20

### ACTIVE MEMBERS

#### CLASS OF 1917

John Stafford Brown

Ramsey Coleman Henschel

Arturo Cleofas Fernandez

Howard Jones Teas

#### CLASS OF 1918

Charles Lee Epperson

Theodore Clayton Sherwood

Hiram Pettibone Lawrence

#### CLASS OF 1919

Stanley Ashton Beck

Luther Cecil Owen

Joseph Arthur Goolsby

Arthur Henry Petsch

Joseph Tipton Hodges

Clarence Chamberlain Wilson

#### CLASS OF 1920

Isaac F. Hodges

John Dewitt Conrad

Bolia Lendel Rinehart





## Beanery

Van B. Hinsch

Fred L. Eames

Emmett L. Arnold

James H. Bock

E. Ross Housholder

Francis H. Geib

Hanley Weiser

Vivien Xly Smiley

Elmer S. Rodenbaugh

Albert C. Laun

Charles C. Fenelon

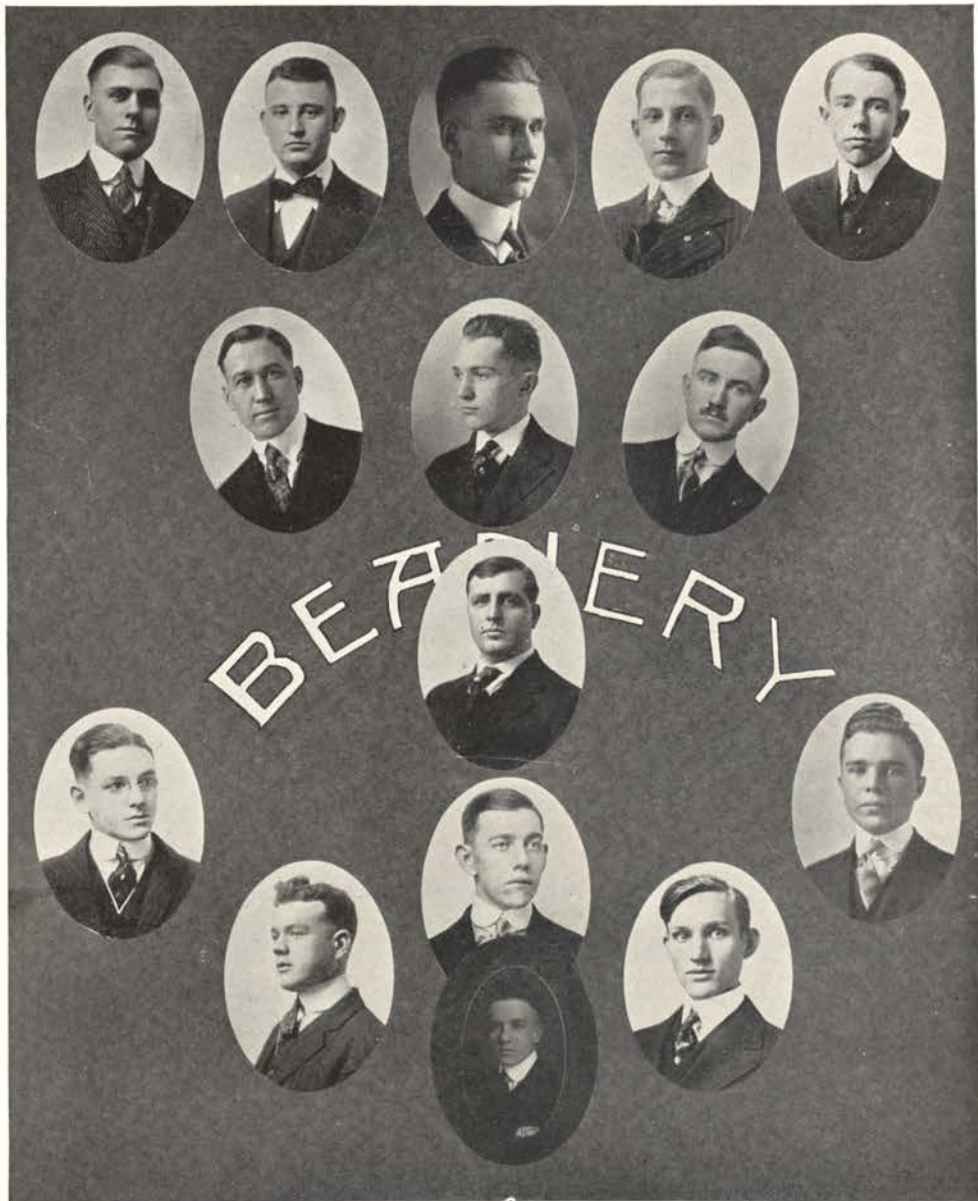
Gerald F. Rackett

Otto Ehler

Willard B. Donai

T. Jackson





## Bonanza Club

### SENIORS

William Guest

Harry J. Schiermeyer (Steward)

Paul F. Pape

### JUNIORS

Henry W. Doennecke

Leslie S. Harlowe (V.-President)

William C. Durning

Orie N. Maness

Charles A. Etem

Herman F. Valentine (Sec.-Treas.)

Leon H. Goldman (President)

### SOPHOMORES

Marion S. Badollet

Walter F. Lottmann

David A. Bash

William J. Nolte

George G. Goodwin

Willis G. Pryor

Knud F. Hansen

### FRESHMEN

Beryl E. Charles

J. Hart Klyman

Henry C. Cox

John G. Miller

Frederick C. Dickerson

Basil H. Turner

James M. Forgotson

Ronald B. Wills

Stanley M. Hayes





## Engineers

### SENIORS

Phillips B. Dolman  
David Greenberg  
Louis Kaplan

James R. Nevin  
Maurice C. Lucky  
Frederick P. Shays

### JUNIORS

Horace R. Stahl

### SOPHOMORES

John L. Howendobler  
Harold W. Hurd

Frederick R. Lang  
W. L. Niece

Frederick A. Krause

### FRESHMEN

George A. Kroenlein  
Glenn S. Norville  
Joseph Novak

Benjamin E. Sherman  
Edwin A. Slover  
John R. Stubbins





## Independents

### SENIORS

Karl William Heimberger

Te Chun Hoo

George Baldwin Wilson

### JUNIORS

Clarence Edward Bardsley

Ernest Ethridge Decker

Oscar Eli Stoner

Hung Tao Tao

Eldred Dewey Wilson

Yen Charles Wong

### SOPHOMORES

Arthur John Kerr

Carl Clark Rice

James Walter Scott

### FRESHMEN

Albert Louis Ackers

Lawrence Owen Casselman

Charles Duffy

Charles Edgar Elkins

William James Finlay

Clarence Oliver Gerber

Abner Decker Hahn

Edward John Hollow

Frank Morris McMillen

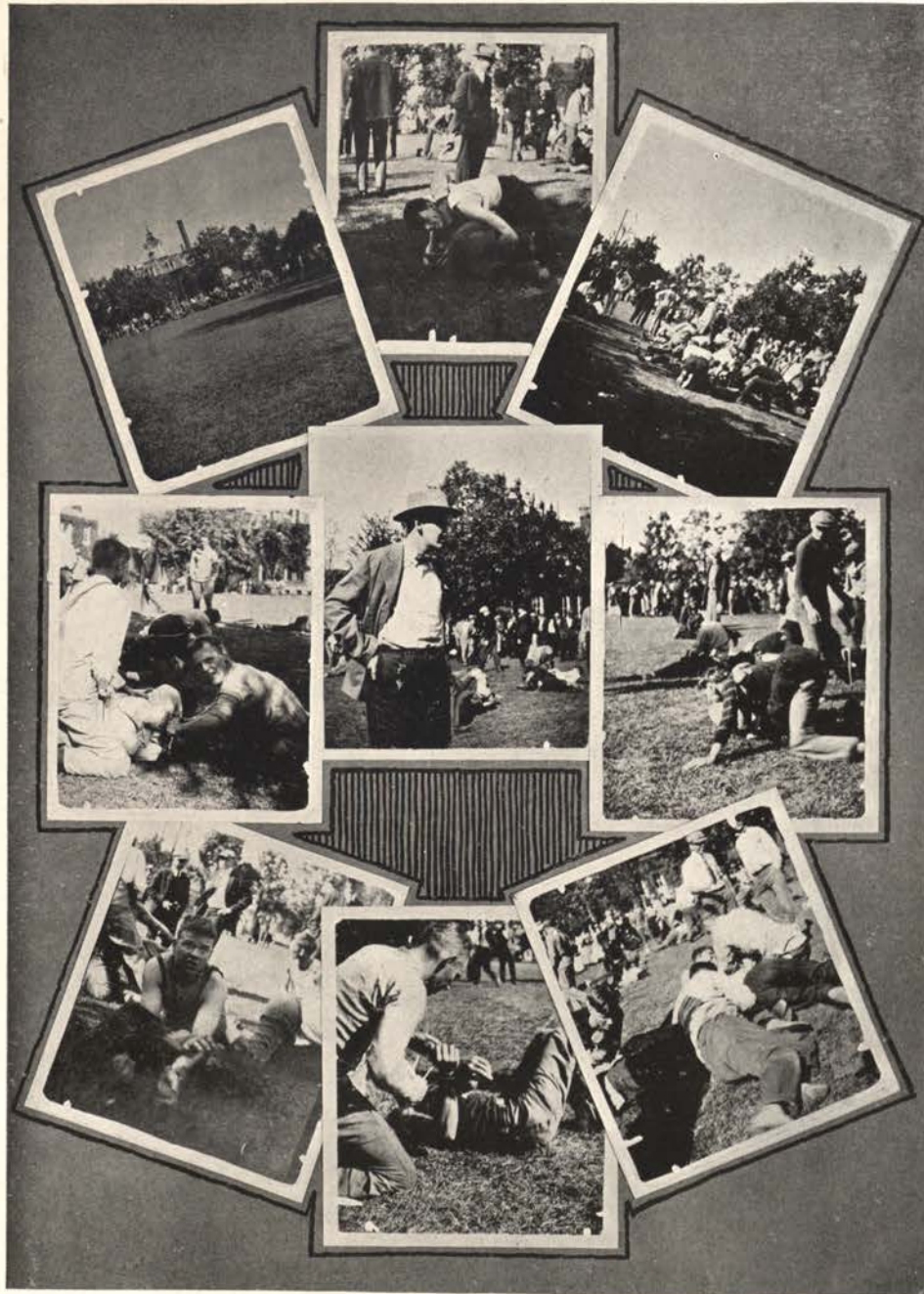
Herbert George Mesloh

Frank Huston Taylor

Harry Wesley Zieseniss









## Green Cap Day

Anyone traveling the various highways of the great metropolis of Phelps County, before 6 o'clock, Sept. 17th, would have noticed the silent evacuation that a retreating army of Freshmen was maneuvering; and a little later, the "plowman homeward plodding" could have met many a white-faced and awe-struck scion of inexperience timidly carrying his blanket and seeking the Promised Land, i. e., the Fair Grounds, to escape the Sophomore Herods in their rear.

Glutted with the previous week's slaughter of the innocents the Herods soundly slumbered and their victims arose in their might and stole back to town to publish their literary and complimentary efforts on posts, pavements, and window panes. So that the first finger of the rising sun fell upon many a green and glaring challenge, while their designers huddled together in the friendly cow sheds and awaited their call to battle.

At 8:30 after the rules of the day had been read, the classes prepared for attack; the Freshmen by painting their faces to distinguish one another. The Senior class had charge of the actual contest, while the Juniors patrolled the sidelines and communed with whatever fair visitors were present.

Promptly at 9 o'clock, services were offered by Bob Lyons, and at his first shot an angry growl arose and the battle was on.

During the first 20 minutes betting was practically even with a moral attitude of sympathy at least for the Freshmen, who despite the vigilance of guards were often freed by spectators. At the end of 20 minutes, apparently more Sophomores than Freshmen were tied and consequently barred, making a big handicap for their surviving classmates.

In spite of the fact that there was a real honest effort to prevent partiality, quite a few Sophomores and perhaps even more of the Freshmen got back into activity and again the Sophomore class was hampered. An explanation why some Freshmen who were barred, and returned to the fray is that practically all the Freshmen, being new men and therefore unknown, were able to cheerfully declare themselves bona fide contestants and fight; whereas, any Sophomore once tied and barred, was recognized as soon as he shifted his position.

In this way an unfair advantage was unintentionally given to the Freshmen and for the benefit of the Sophomore class let it be said that truly they were against great odds, not considering the moral support of many older men and townspeople.

True, too, in all former years partiality was shown to the Sophomores to such a marked degree that it was impossible for the Freshmen to conquer. This year the Seniors and Juniors in their published rules stated that fair play would be strictly observed and no one objected.

It was a compliment to the Sophomore class (even though it led to defeat), for it permitted them an honor never before given to a Sophomore class—that is, either to win a real and noble "man-sized" victory, or at least to fight under truly American standards, and observe those principles upon which the greatest nation of the present day is founded—those principles of fair play and square deal!

The Freshmen fought well, but must realize that the victory, morally at least, is with his old fellow student, who accepted fair play which spelt defeat for him.

Believing then that to subject the men who were declared victors to further hazing was not justice, the Sophomore class, since they were defeated, relin-







Alma Mater," by J. S. Brown, '17. Mr. Krause gave a dramatic reading of Yukon life in Alaska. Cicardi's orchestra rendered some snappy popular music, after which the curtain rose on the minstrel show. Mr. Bohart conducted a short campaign against the "blues," with Messrs. Bates, Place, Dawson and Dickerson as first lieutenants. The circle was represented by Messrs. Fox, Scruby, Hahn, Sprigg, Shore and Crutcher.

The afternoon's celebration ended at six o'clock, to be followed at seven by the "kiddies" picture show.

The grand climax of the day was reached in the masquerade ball. A record crowd had assembled in Jackling gymnasium at 9 o'clock, when Cicardi's orchestra began their irresistible music. At 10 o'clock the dancers were halted by a peremptory kow tow from St. Patrick. The throng opened a passageway, and St. Patrick ascended to his throne. After a few words the Queen was escorted to the throne by Messrs. Goldman and Mellow. In a hush of voices, St. Patrick crowned Miss Olive Scott as Queen of St. Patrick. As the orchestra struck up a march, one hundred and seventy-five couples followed Messrs. Goldman, Mellow and Reber in the grand march. At its conclusion, during a kow tow ordered by the Queen, St. Pat, Queen and attendants took their departure for another year. Programs were made out at 11 o'clock, and the dance of the season gaily continued until the chords of "Home, Sweet Home" floated through the hall at 4 a. m.

St. Pat's Day is the big day in the Miner calendar, and was celebrated this year as never before.



## M. S. M. Annual Banquet

The second annual alumni banquet given by the students and alumni of M. S. M. was held at the American Annex on Thursday evening, Dec. 28, 1916. Dr. McRae was the guest of honor.

The banquet started off with an address by Rev. F. M. Weddell, after which the big feed was served. After the fourth course Mr. K. V. Moll, ex-'02, and president of the St. Louis Alumni Association, very cleverly called upon Dr. McRae for a speech, who responded with a talk upon "Statistics of Interest to Rolla Men." After each course either a speech or some musical entertainment was rendered.

The speakers for the evening were: Dr. McRae, Dr. Ravold, Brazill, Bohart, J. K. Walsh, Johnson, and others.

The banquet was not attended as well as it should have been, but those present had lots of "pep," and entered into the occasion with heart and soul. Bills with popular songs printed thereon were distributed, and everybody sang, along with the cabaret entertainers. This was quite novel.

Before the banquet many old and new acquaintances were made, and this was a very pleasant sight to see.

Too much praise cannot be given to those on the committee who arranged and shouldered the responsibility of the banquet.

Among those present were: N. Packman, P. D. Wilkinson, L. A. Turnbull, W. H. Reber, F. H. Geib, J. K. Walsh, G. Burnet, C. B. Hummel, M. F. Faulkner, J. A. Allison, W. Crow, M. F. Bowles, J. R. Porter, H. A. Ambler, Wm. Kahlbaum, P. H. Bohart, P. G. Forman, O. Goldsmith, N. B. Larsh, B. G. Nichols, J. M. Forgotson, I. B. Johnston, S. S. Sour, J. H. Klyman, J. R. Crenshaw, W. H. Freudenberg, H. G. Mesloh, B. L. Triefenbach, R. P. Cummins, Claude Myers, K. V. Moll, Rev. F. M. Weddell, R. E. Hoffman, R. F. Rucker, Dr. A. Ravold, Geo. V. Bland, A. D. Terrell, J. D. Shanks, B. L. Ashdown, A. Wander, A. N. Detweiler, C. C. Conover, J. O. Ambler, Prof. H. S. Dickerson, Tom L. Gibson, L. J. Chamberlain, C. Bramson, J. J. Doyle, F. Grotts, G. Erskine, L. Erskine, D. B. Followill, C. E. Heinz, F. R. Loveridge, H. Ritter, Prof. N. C. Hutsinpillar, M. P. Brazill, Jr.



## Tulsa Banquet

The football season closed at Tulsa, Oklahoma, on Turkey Day. Thanksgiving night witnessed one of the splendid Miner get-together meetings and banquets when the football team was royally entertained by the Tulsa and neighboring alumni at the Tulsa Hotel.

The banquet in itself was a substantial reminder of Miner good will which will long be remembered by the participants. But, even better than that, was the marked loyalty of the alumni to M. S. M. and their friendliness and interest for the men in school. This spirit was much manifested by their rooting in a body at the game, their helpful talks and suggestions from their experience, and their personal interest in showing the men over the field and through the refineries.

Once a Miner, always a Miner, was soundly exemplified by the twenty-four alumni and twenty undergraduates who were present.

Mr. M. M. Valerius, of Valerius, Hughes and McNutt, was toastmaster, and acquitted himself most nobly.



## Class Banquets

Unfortunately the class banquets cannot be covered for the '17 Rollamo as they will be too late for insertion. There is no doubt in the world but that the Senior class will uphold their sacred traditions by having a feed in St. Louis at the close of their Senior trip. Already a committee has been appointed and it is planned to have a box party, followed by a banquet, at which all Seniors and Faculty men will be young once again. If the affair is anything like their Junior banquet, the St. Louis papers will not be large enough to do it justice.

Likewise the Junior class is planning their annual banquet, which will probably be held at the Baltimore Hotel at Rolla.

The Sophomore class are apparently going to "pull off" something new in the line of a "feed," for their newly appointed committee only smile when questioned on the subject.

As for the Freshman class, rumor has it that they, too, intend to imitate their upper classmen, but "Safety First" is their motto, and their preparations are secret, because tradition dooms them to refrain from such affairs. If they do elude vigilance and have a "spread," it will probably be out at the fair grounds under the friendly shelter of the woods, unless, of course, the squirrels annoy them.





## Senior Trip of Class '16

NOTE: The following extract is taken from a diary of one of the Class '16 which diary, although famous for its total departure from all technical observations, should prove a valuable contribution to future philosophical scientific research.

### NEWS FROM THE FRONT

"Kroeger" Klepel gave a one-hand piano recital Tuesday, May 9th.

"Bull Durham" Deutman believes in Safety First and private deposit vaults.

"Heine" Malloney McCartney will assist "Maggie" Head on a diamond drill.

"Maggie" Head has accepted a temporary position as Engineer for the Doe Run Lead Co., until things open up in Mexico. Maggie reports that, being interested only in coarse crushing, every rock in Southeast Missouri means something to her.

Charlie Kaplan Oscar Looie Schulz Gold "stepped out amongst them" the other evening. Our cook evidently had a pleasant time for Oscar found a piece of meat near his place next day.

"Otto Schmalz" Smith spent a whole day making a "flow-sheet of power-factor" and came to the conclusion finally that D. C. installations don't have 'em.

"Peaches McCormack" Vogel and "Flo-tation" Neustaedter could not overcome competition with a Ford and waited in vain on the castle steps until midnight.

"Maggie" Head is now sole owner of the Rolla baseball team.

Prof. Mann confuses a 4:00 o'clock call for 7:30, and it is said that he will not let the boys go swimming in the afternoons, chiefly because he had not been invited himself.

"Mrs. Gem Dowd" was taught how to flirt in Bonne Terre. "This is the first time I ever pulled a stunt like this in all my life," said the flirt. What she mean—stunt?

"Speedless" Erskine was seen weeping at the Flat River station when a bevy of pretty girls and their nurse came down to see him off.

"Geologist" R. B. C. D. Worley finds that "first come, first served" is not always the case. "We just ran out of meat, will the fish do?"

Profs. Cox and Forbes as efficiency experts are positively nix. For particulars see Ency. Britt. for data on sawless carpenters.

In the beautiful village of Pilot Knob a simple countryman approached the geology party, with profound apologies, of course, and asked whether the wild bunch was Coxie's Army.

"Missouri" Krebs and "Hotel" Hoffman spent most of their time relieving "Peaches" and "Bone" Klein on the up-hill shift.

Prof. Clayton, owing to excess baggage, beat "Bone," "Oscar," and "Pat" Ude out of the position of rear-guard.

"Guke" Koch and P. Weiberg, after some practice, acquired the art of entering "blind-tigers" and giving the pass-word "Amber Bead."

Lieut. Guy Henry Miller has been accused of sitting on the contact of the Bonne Terre and Davis formations without knowing the difference.

Dr. McRae claims that the Doe Run Mine and Mill is run by tar from the Produce Plant with an efficiency of 70%.

"Oscar Schulz" Gold and "Pat" Ude are no longer on speaking teams because of "Pat's" having persuaded "Oscar" to sit on a steam pipe and tell stories.

"Robust Romeo" Weiberg visited "Hooks" Kock Sunday.

"Eddie" Krebs was sent home from his friend's house in Edwardsville, Ill., at 11:45 Sunday evening. Tough luck, Eddie.

Charles "Lawrence Dake" Peterson, Prof. Dake's new protege, seemed to be well versed in Geology and other similar subjects such as beer saloons and the like.

"Eddie" Krebs, the well known M. S. M. rear guard, while in Crystal City, led in the march to the "Orange" Emporium.

"Joe Bohu" Ude is still a little undecided as to whether he will follow mining or engage in the clothing business.

## History of Student Council

**F**OR the last few years the Student Council has been but an insignificant routine class election of men who were popular perhaps but not necessarily of proved worth and who were handicapped by affiliations or indifference.

In this way, and not through the fault of the men, the Student Council was lightly esteemed, and any real efforts they made to fulfill their duties were met with lack of favor.

When certain men were about to be expelled from school because of "Circus Day" festivities, a mass meeting was called by the students and representative men were elected to see if they could not co-operate with the Faculty. The results were gratifying, for the representatives of the Faculty and the student body came to an immediate understanding, and much good was accomplished.

This was the birth of a new and real Council that adopted a constitution and had it ratified by an unanimous vote of the student body and Faculty. Under its charter six men from the Junior Class and four men from the Sophomore Class were to be nominated by their classes and voted upon by the entire school, so that the next year's Council would be composed of three Seniors and two Juniors.

This was done and Messrs. Stoner, Clark, Doennecke, Krause and Scott were elected.

In the meantime, the old committee, elected to draw up the constitution, were asked to act until the close of the year and officers were elected.

These men immediately went after their work and got results. They co-operated with the Faculty upon several occasions even when it resulted in the expulsion of offenders of school rulings and traditions.

The constitution was printed and posted. A subscription to have a flagpole on the Campus was initiated and carried through by them. Today M. S. M. has a flagpole.

While Congress was in session the Council saw to it that each morning and night the flag was raised and lowered by two volunteers. They instituted Military Drill, and in this way benefited both country and school.

Nor did the mass meetings continue to slip into oblivion, for they were resurrected and made interesting by speeches and music.

The second mass meeting of April saw the new members of the '18 Council sworn in. A very impressive ceremony, during which each man read and signed the oath of office, made all appreciate the fact that at last M. S. M. had realized its ideal in Student Self Government.

After that day, the '17 Council retired but ever after all M. S. M. is grateful to the men who started, made, and built that which is the most honorable and efficient school activity at M. S. M.

M. S. M. appreciates the Student Council '17 and thanks them for their efforts.



## Degrees Conferred May 26, 1916

### ENGINEER OF MINES

George Hewitt Boyer, B.S. 1908  
Hector Boza, B.S. 1911

Thomas Samuel Carnahan, B.S. 1904  
Homer Kent Sherry, B.S. 1912  
Theodore Saunders Dunn, B.S. 1910, M.S. 1914

### METALLURGICAL ENGINEER

Charles Yancey Clayton, B.S. 1913  
Alexis Xavier Illinski, B.S. 1910

Norman Lloyd Ohnsorg, B.S. 1910  
Robert Glenn Sickley, B.S. 1913

### CIVIL ENGINEER

Ralph Robert Benedict, B.S. 1908  
Ernst Lorenz Chamberlain, B.S. 1909

Arch Waugh Naylor, B.S. 1912

### MASTER OF SCIENCE

Reginald Scott Dean, B.S. 1915

### BACHELOR OF SCIENCE IN MINE ENGINEERING

Robert Stanley Burg  
Earl George Deutman  
James Joseph Dowd  
Walter Gammeter  
Charles Berliand Gold  
James Lawrence Head  
John Stone Hoffmann  
Octavius Louis Lumaghi

Holman Thompson Marshall  
John Charles Miller  
Harold Arthur Neustaedter  
Colwell Arba Pierce  
Carl Godfried Stifel  
George Edgar Ude  
Herman Herbert Vogel  
Walter William Weissbach

William Henry McCartney, Jr.

### BACHELOR OF SCIENCE IN METALLURGY

Gunnard Edmund Johnson  
Hugo Edward Koch

Earl Joesting McNely  
Clarence Eugene Peterson

### BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Byron Lee Ashdown  
Emil Lucius Beyer  
Edward Victor Damotte  
Lewis Needham Hoppock

John Ralph Maher  
Don Hawk Morgan  
Edward Louis Sailer  
John Morris Schuman

Thomas Purcell McCague

### BACHELOR OF SCIENCE IN GENERAL SCIENCE

Bernard William Adams  
Azmon Thurman Dunham

Greene Erskine  
Edwin Alexander Kayser

Frederick Grotts





## What did Their Folks have Against Them

"Floyd Dixie" James

"Clemence" Hippard

"Cecil Maurice" Lucky

"Artilius Von Hindenburg" Eulich

"Percy Grant" Forman

"Victor Hugo" Doeling

"Napoleon Bonaparte" Larsh

"Meryl" McCarthy

"Vivien Xly" Smiley

"Sylvan" Sour

"Alvah" Starkey

"Lucerne" Tidd

"Delassus" Wilkinson

"Anvil" Williams

"Cicero" Cox

"Noah" Johnson

"Marion" Mann

"Rudolphus" Riddlesberger

"Adelbert" Runge

"Leon" Schumacher

"Virgil" Whitworth

"Chauncey" Halligan





#### ENGINEER OFFICERS' RESERVE CORPS

Assistant Professor E. S. McCandliss.....Captain  
 Professor C. R. Forbes.....Captain  
 Associate Professor F. E. Dennie.....First Lieutenant  
 Instructor F. H. Frame.....Second Lieutenant

These officers are in the training camp at Fort Riley, Kansas.

#### UNITED STATES MILITARY TRAINING CAMP,

FORT RILEY, KANSAS

|                        |                         |                           |
|------------------------|-------------------------|---------------------------|
| Ambler, H. A., '17     | Gettler, C. A., '20     | Rice, C. C., '19          |
| Arnold, E. L., '17     | Gill, J. P., '18        | Richmond, W. W., '20      |
| Bloom, G. B., '20      | Goldman, L. H., '18     | Riddlesperger, R. R., '20 |
| Bruce, R., '19         | Golick, T. F., '18      | Rinehart, B. L., Sp.      |
| Burgesen, J. C., '19   | Heimberger, K. W., '18  | Scruby, H. D., '19        |
| Burnet, C., '18        | Lawrence, H. P., Sp.    | Shayes, F. P., '17        |
| Clark, H. S., '18      | Leach, T. W., '19       | Shipley, J. J., '17       |
| Cooper, R. D., '18     | Lucky, M. C., '17       | Shore, H. F., '19         |
| Corby, H. G., '18      | Marston, R., '19        | Shriver, R. O., '17       |
| Crawford, T. C., '17   | Moore, F. V., '19       | Sprigg, S. N., '20        |
| Crutcher, W. B., '20   | Muehlberg, C. E., '17   | Stoner, O. E., '18        |
| Cunningham, L. H., '18 | Murphy, E. N., '18      | Terry, M. L., '18         |
| Dawson, T. L., '18     | Nevin, J. R., '17       | Tidd, L. M., '20          |
| Dorris, C. L., '19     | Pape, P. F., '17        | Walsh, J. K., '17         |
| Eames, F. L., '17      | Peterson, C. A., '17    | Walsh, T. P. F., '17      |
| Ewing, H. K., '19      | Pryor, W. G., '19       | Wilkinson, P. D., '18     |
| Flanders, J. E., '18   | Pugh, J. W., '18        | Wilson, C. C., '19        |
| Forman, P. G., '19     | Raible, J. C., Jr., '18 | White, F. P., '20         |
| Fox, G. H., '20        | Reilly, J. H. G., '17   | Wright, K. M., '20        |



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## A Historical Sketch

A CLIPPING TAKEN FROM THE 1912 ROLLOMO, FROM THE ADDRESS OF THE HON.

THOMAS L. RUBEY, DELIVERED AT THE FORTIETH ANNIVERSARY

OF THE FOUNDING OF THE SCHOOL

(Revised to Date)

**I**N 1870 Hon. Ellis G. Evans, State Senator from Rolla, introduced and passed through the General Assembly of Missouri a bill to establish in South Missouri a mining school, to be a college of the State University. The bill provided that the school should be located in the town that gave the most in money or land. There were two contestants, Ironton and Rolla, and Rolla won.

The Board of Curators first selected old Fort Wyman as the site of the school buildings, because of its natural beauty, and the extent of the view it afforded, but practical considerations caused them to relocate the buildings in the northwestern part of the town, which is the present site.

The first building, the old Rolla Building, was purchased from the school district, which had built it as a public school, and it served all the needs of the school until 1885, when the central portion of the present Chemical Laboratory was erected. This building has been subsequently enlarged by the addition of two wings and a second story. In 1889 the present director's residence was built. It was first used as a student club house, but its use for this purpose was soon abandoned. In 1895 the power house, then known as the Metallurgical Building, was erected. This building has subsequently been greatly enlarged, the last extension having been made in 1911, when the new brick chimney and an addition to the boiler room were built. Mechanical Hall was erected in 1901. In 1902 and 1903 Norwood Hall, the principal building of the group, was erected. This building, besides being the central one of the group, is the largest and most imposing and is the one by which the school is best known. The Ore Dressing Building was erected in 1908 and 1909, but the top story of the main portion was not erected until 1911. Parker Hall houses the Library and executive offices, and contains an adequate auditorium and was completed in 1912. The large Gymnasium, with its spacious swimming pool, gymnasium and basketball floor, indoor track, committee rooms, etc., was completed during the summer of 1915.

The equipment and laboratory facilities of the school have increased with the number and size of the buildings, and today the splendid laboratories of Chemistry, Metallurgy, Ore Dressing, Physics, Electrical Machinery, Materials, Testing, Steam, Air and Hydraulic Machinery, Geology, Mineralogy, etc., the well-equipped wood, forge and machine shops, and the extensive field equipment for land, mine, topographic and geologic surveying, place the School of Mines in the front rank of technical schools. The School also maintains a small "mine"



about a mile from Rolla, where practical experiments in drilling are carried on by the students under able instructors.

Until 1890 the school received its support from the sale of agricultural lands and the financial appropriations made by the Legislature. In 1890 the Morrill Fund was established by the National Government and since that time the school has received one-fourth of the money coming to the State from that source. In 1891 the sum of \$650,000 was paid to the State as a remuneration for loss during the Civil War; this was given by the State Legislature as an endowment to the University, and of the interest on this the School of Mines receives one-fifth. A little later the Collateral Inheritance Tax law passed and of this the School of Mines also receives one-fifth. It is impossible to overestimate the value to the University of this tax, and many of the buildings of the School of Mines would not have been possible without it. The Legislature has always been as liberal as possible with the institution and the appropriations have kept pace with the growing needs of the school.

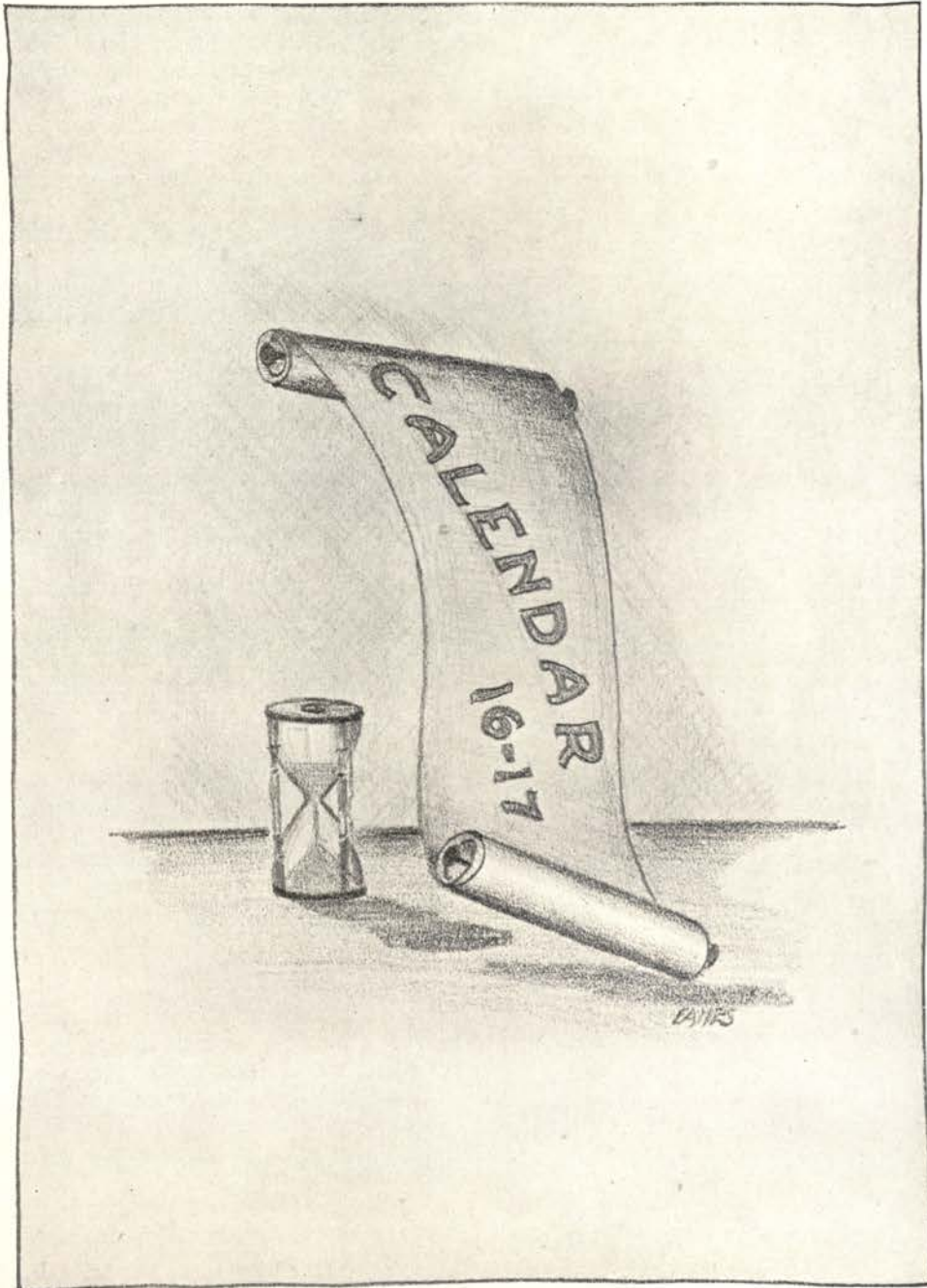
Formerly the courses offered were not so strictly technical as they now are, and many students entered to pursue academic courses; now the courses are all professional, and are rapidly being expanded to meet the growing importance of technical work. The courses now offered are Mine Engineering with broad options in Mining Geology, Mining Machinery, Coal Mining, Ore Dressing, Metallurgical Engineering, Electrical, Chemical, Mechanical, and General Science.

Frequent changes in a faculty are to be deplored and the school has been fortunate in this respect. The ideal now seems to be to select teachers, not so much on their scholastic or professional record as on their ability to teach. As the student is required to do more and more exact work he has a right to demand higher teaching efficiency, and as "efficiency" is the charm-word of engineering, so "teaching efficiency" and personality that will attract, hold, and inspire the student has become the maxim of this school in selecting instructors.

The future of the institution looks bright indeed. Its alumni are among the leading men in the mining and allied industries. The competent faculty, splendid equipment and policy of judicious expansion are sure to keep the institution in the highest rank of Engineering Schools.







# Calendar

## SEPTEMBER



- 9—Signs of life at Frisco depot. Many Seniors (and fourth year men) are disguised by facial shrubbery.
- 11—A haz(e)y night. Laun is introduced to Frisco Pond.
- 12—Sophs have usual lecture on hazing with usual result.
- 13—The little man (?) behind the whiskers discovered to be Elfred.
- 14—Freshman class attends church social.
- 16—Several Miners take annual bath at Panther's Bluff.
- 17—Frosh beat masterful retreat to Fair Grounds and pitch camp for the night.
- 18—Sophs are good losers and show true pep by giving a smoker.
- 19—Half holiday to bandage up wounds and give alibis.
- 20—Prof. Dean opens up with usual fusillade of jokes.
- 21—Clem Hippard accidentally arrives in Rolla.
- 23—First Rollamo show of the year.
- 25—Physical exam begins. Dennie gives "the once over" to the students and discovers "Mexican athletes" and otherwise.
- 28—Phelps County Fair. Miners devote half holiday to judging chicken.
- 29—Captain Jack Imlay is hurt in James Milliken game. Students are shocked to hear that Heman is married. Hope it is false. Nevin gives pugilistic lemonstration at fair grounds.

## OCTOBER

- 1—Sad news about Heman confirmed.
- 2—Big athletic carnival in gymnasium. Sophs cover themselves with glory. Mutt and Jeff discovered in Starkey and Duga.
- 4—Bardsley gets first free shave given by Senior class.
- 5—Mining Association meets and officers are elected. Talks by Buehler and Forbes.
- 6—Missouri Miner guessing contest starts.
- 7—Prof. Dean goes fishing.





OCT 4



OCT. 9

- 9—Big pep parade and "Whiskers" dignity is offended. Students decide to take a holiday in honor of the circus.
- 10—Same is fulfilled. Wrinkling in great abundance. Faculty terrified.
- 11—Faculty honor some of the students with third degree.
- 12—Seven men suspended for honoring circus day. Seniors use razor again.
- 13—Best mass meeting of the year. Students elect committee to petition Faculty to reconsider suspensions. Miners play the Osteopaths. Lask is seen fussing.
- 14—Big pow wow in Y. M. C. A. room from 7:30 until 12 p. m. Faculty and student committee battle to draw.
- 16—The seven men are reinstated.

17— A. W. HARE.  
18— J. A. WORLEY.

- 21—Miners meet the Razorbacks.
- 23—Lucky returns from bum to Arkansas.
- 24—Goolsby's pajamas arrive in Newburg.
- 25—Seniors have quiz in Electrical Machinery and Walsh & Co. Miss Mt. Vernon Singing Co. to study for same but from force of habit forget to go to quiz.
- 27—Sidedoor Pullman traffic between Rolla and St. Louis picks up.
- 28—Miners lose by one point to Washington. Grand and Olive streets (St. Louis) well patronized by students seeking consolation.
- 30—Very few Miners back from game. No. 7 loaded (with proper spirit). "Oklahoma" Guest reports that he did not stop at the Famous Bar while in St. Louis.
- 31—Hallowe'en sees first Rollamo dance a success.

#### NOVEMBER

- 3—Warrensburg treated to a surprise. Wilson wins by one vote in straw ballot. Bob Lvons votes twice.
- 5— E. O. STOLIKER.
- 7—Election day. We have a holiday. Y. M. C. A. "M" Books are distributed. Nichols bags a turkey.
- 8—Report received that Hughes and Wilson were elected.

- 9—Prof. Dean's lecture—"How to Fish and Catch Suckers."
- 10—Drury pays us a visit. Freshman Smoker best ever. Another Democrat Clayton, Jr.—arrives in Rolla.
- 11—Theta Tau initiation.
- 12—"Boots" Clayton still wearing "smile that won't come off."
- 14—Profs. Duffy and Dake start to dancing school.
- 17—Miner team has warm time in Texas.
- 20—Lecture on character analysis. Students discover that they are all square headed. Metallurgical and Chemical Society organized. Lesniak joins Terpsichorean Fraternity and indulges in dancing.
- 23—Dr. Daniels gives lecture on eastern people and customers. Rollamo shows Geraldine Farrar in "Carmen." Sophs enjoyed the afternoon attempting to answer crystallographic theories.
- 24—Y. M. C. A. number—Musical Entertainers.
- 25—Schnaidt wins cross country run.
- 28—Dr. McKeen gives lecture on engineering. Masque Rollamo dance.
- 29—Team leaves for Tulsa. Bardsley again shaved but showed evidence of pugilistic ability.
- 30—Miners attend big banquet in Tulsa after football game. Who said Oklahoma was a dry state?

#### DECEMBER

- 1—Students, especially Haley and Krause, attend Teachers' Convention.
- 4—Juniors draw picture of steam engine. Some engines.
- 6—Lecture on ball bearings.
- 7—Motion pictures of National Tube Co. plant.
- 8—First Rollamo show in new location.
- 9—Sophs and Fosh battle to a tie in the annual football game.
- 12—Ebmeyer attempts to find out what the temperature of an electric current is. He meets with success.
- 13—Bruce elected captain of football team.
- 14—Inter-class basketball starts. Skeen returns from border.
- 15—Engineer Club Freshmen shovel snow for their dinner. 'Twas always thus, Freshmen.



DEC 9



- 16—Julius Caesar Naphne gives good lecture in Parker Hall.
- 18—Prof. Ingram gives Freshmen Chemistry papers back for Xmas present.
- 19—Faculty finishes up the year with numerous exams.
- 20—Evacuation begins and traffic to St. Louis again picks up.
- 22—Consignments of prayer books and consolation prizes arrive.
- 28—M. S. M. Booster Banquet in St. Louis.

#### JANUARY

- 3—Sleepy bunch back. Prof. Dean not recognized because of absence of whiskers.
- 4—Moving pictures of Trinidad and Asphalt lakes.
- 5—Byron Ashdown gives interesting talk on dredging.
- 8—Adrian Newin presents "A Message from Mars."
- 9—Schiermeyer discovers a new Freshman.
- 10—H. S. Clark gives lecture before the Met. and Chem. Society.
- 11—Junior St. Pat's committee is appointed.
- 12—"Hello Hinges" at Rollamo show draws large crowd. Dance at St. James. Everyone returns safely. First installment of "What's Wrong with M. S. M.?"
- 14—The hundredth anniversary of hydraulics.
- 16—A new disease discovered—four exams in one morning.
- 17—Meeting to formulate plans for new student council.
- 18—Football sweaters presented at mass meeting. Address by W. E. Tinker, secretary International Y. M. C. A. Many Faculty members forget themselves and come to mass meeting by mistake.
- 23—First semester ends. Prof. Frame shows the amateur physicists an atom. Fraternity Freshman Smoker. Prospector Club smoker.
- 24—Central Wesleyan and M. S. M. mix in a very close game. Heimberger initiates his new motorcycle. Result: Unconscious for four hours. Registration second semester begins.





- 28—Several Miners attend Christian Endeavor at Newburg.
- 29—Fred Lane generates too much gas, which results in an explosion of gas house. Class pictures are taken for the Rollamo. Engineer Club Smoker. Valentine Harlowe and Lask return from Newburg on the "A LaTie" special.
- 30—Lucky figures in sensational litigation. Is sued for seventeen cent laundry bill and declares bankruptcy.
- 31—St. Louis and M. S. M. basketball game. Bonehead section start. Well attended.

## FEBRUARY

- 1—Housholder distinguishes himself as a fire fighter.
- 2—Sixteen below zero. Many find it difficult to reach first hour classes.
- 3—Lyceum number—The Parish Players.
- 5—Prof. Garrett has an unannounced quiz. Results show that the student was unprepared.
- 7—"Diana" at the Rolla theater and consequently no Rollamo meeting. Everybody there and on time.
- 8—"Circus Day" letters sent out by the Faculty. Some are slighted and feelings hurt.
- 9—"Circus Day" letters continue to arrive and it is found that no one is slighted. More feelings hurt.
- 13—The day of judgment. Faculty committee meets all those wishing to see them.
- 14—Another dance at St. James is well attended by the Miners. Frisco service excellent. Mr. L. A. Delano lectures before the Missouri Mining Association on "Influence of Ball Mills of the Mining Practice of Southwest Missouri.
- 15—T. F. Golick gives lecture on "Analysis of Cassiterite Ores" at meeting of Missouri Metallurgical Society.
- 16—Bonanza Club Smoker.
- 17—A certain professor turns detective. Starkey refuses to take Civil Engineering.
- 19—Constitution of new Student Council read before student body.





MAR. 2



MAR 10



MAR-16

- 20—Grubstaker fire. Several new track men are discovered.
- 22—Washington's birthday — h o l i d a y. Sweater Benefit Day at Johnson's pool hall. Pi Kappa Alpha team wins bowling tournament.
- 24—Miners defeat Drury in a basketball game.
- 26—Signs of spring. Baker comes out in new last year's spring suit and it snows the day following.
- 28—Dr. Payne lectures on "Arctic Mining."

### MARCH

- 1—Tau Beta Pi initiation and banquet. Dr. McRae sick the morning after. St. Pat proclamations posted.
- 2—"Haydee" censored by the Faculty.
- 3—"Haydee" presented before a large and appreciative audience. Many stars are revealed.
- 5—New constitution of Student Council popularly accepted. Faculty members in consternation and awe.
- 7—Sherwood meets with an accident.
- 9—I. K. K. initiation.
- 10—St. Benefit at Harvey pool hall.
- 10—Freshmen leave town in a body to procure shillalahs.
- 12—Mr. Kahlbaum elected treasurer of the Rollamo.
- 13—Lyceum number, The Musical Guardsmen.
- 14—Faculty throw up entrenchments and send out letters. Many stwegents promise to become students. M. O. Baxter of the Henry L. Doherty Co. talks to the Junior and Senior classes.
- 15—Mechanical hall and gymnasium take on a busy air.
- 16—"St. Pat's Day" arrives with rain storm, but by noon it clears off and one of the "best ever" celebrations is put on.
- 17—Masquerade ball breaks up at 4 a. m. Y. M. C. A. dance in the evening.
- 18—Visitors leave. Certain individuals have slight attack of heart trouble.
- 19—First hour class is very unpopular. Sleeping and dreaming predominates most of the day.
- 26—The student, having forgotten about



St. Pat's Day by this time, is treated to numerous exams.

- 28—Freudenberg discovers a new mineral and names it calabash.
- 29—Chemical Engineers' Smoker. Y. M. C. A. cabinet for 1917-18 elected.

#### APRIL

- 2—Some real pep is shown. Students begin on "Flag Duty" schedule.
- 3—"Jack" Horner gives address before Metallurgical Society on "Lead Smelting at Omaha." First game of Inter-Club-Frat series.
- 4—"Doc" Stoner gets rough in Geology class.
- 5—Enthusiastic flagpole mass meeting is held.
- 6—Meeting of all men possessing some military training.
- 7—St. Louis is again a popular place for manv.
- 21—Track meet. Miners win over McKendree College at Rolla.
- 28—Miners play Concordia at St. Louis.

#### MAY

- 14—Fifty-nine students and four faculty members of the School of Mines started training at Ft. Riley, Kansas.





VITAGRAPH

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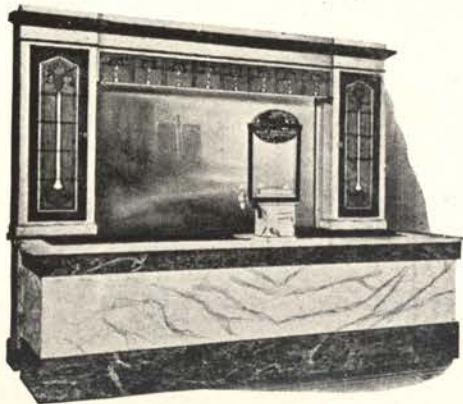
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